















**REFERENCE DOCUMENTS  
CLOSE-OUT MEMORANDUM**

Lake Calumet Smelting Site, Chicago, Illinois

- Reference 1 - Memorandum-Request for Approval and Funding for a Time-Critical Removal Action at the Lake Calumet Smelter [sic] Site, Chicago, Cook County, Illinois; September 24, 2012
- Reference 2 - Title Search Report for Lake Calumet Smelting Site, Chicago, Cook County, Illinois; July 25, 2012
- Reference 3 - Cook County Property Tax Portal Search Results; Address: 11901 S. Champlain Ave, Chicago; printed January 26, 2016
- Reference 4 - Pollution/Situation Report; POLREP #1, Initial, Lake Calumet Smelter [sic], B5FM, Chicago, IL; October 15, 2013
- Reference 5 - Pollution/Situation Report; POLREP #4, Progress, Lake Calumet Smelter [sic], B5FM, Chicago, IL; November 4, 2013
- Reference 6 - Pollution/Situation Report; POLREP #8, Final Polrep, Lake Calumet Smelter [sic], B5FM, Chicago, IL; January 27, 2014
- Reference 7 - Itemized Cost Summary, Lake Calumet Smelting, Chicago, IL, Site ID = B5 FM, November 18, 2016
- Reference 8 - Declaration of Brad Benning; in the Matter of Lake Calumet Smelter [sic] Site; U.S. District Court, Northern District of Illinois, Eastern Division; undated
- Reference 9 - Administrative Warrant to Effectuate Removal Response Action to Eliminate an Imminent and Substantial Endangerment to Public Health and Welfare; United States District Court, Northern District of Illinois, Eastern Division; September 12, 2013
- Reference 10- Correspondence; Illinois Environmental Protection Agency; Referral of Lake Calumet Smelting Site to U.S. EPA; January 3, 2012

- Reference 11- Application for Ex Parte Administrative Warrant to Effectuate Response Action to Eliminate Imminent and Substantial Endangerment to Public Health and Welfare: United States District Court, Northern District of Illinois, Eastern Division; undated
- Reference 12- Corporation File Detail Report; Office of the Illinois Secretary of State; Lake Calumet Building Corp.; printed November 28, 2016
- Reference 13- PIN Summary; Property Index Number 25-22-401-002-0000; Tax Year 2015; printed November 28, 2016
- Reference 14- Corporation File Detail Report; Office of the Illinois Secretary of State; Lake Calumet Building Corp.; printed July 23, 2012
- Reference 15- Person search; CLEAR.thomsonreuters.com; Garcia, Francisco, Orland Park, IL; October 3, 2012
- Reference 16- Business Search; CLEAR.thomsonreuters.com; Inland Metals Refining Co.; February 2, 2012, October 3, 2012
- Reference 17- Search Superfund Site Information; Inland Metal Refining Company Corporation; July 25, 2012

## **Reference 1**



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**REGION 5**  
**77 W. JACKSON BLVD**  
**CHICAGO, IL 60604**

**MEMORANDUM**

**SUBJECT:** Request for Approval and Funding for a Time-Critical Removal Action at the Lake Calumet Smelter Site, Chicago, Cook County, Illinois (Site ID #B5FM)

**FROM:** Brad Benning, On-Scene Coordinator  
Emergency Response Branch 2 - Response Section 3

**THRU:** Samuel Borries, Acting Chief  
Emergency Response Branch 2

**TO:** Richard C. Karl, Director  
Superfund Division

**I. PURPOSE**

The purpose of this Action Memorandum is to request and document your approval to expend up to \$1,963,795 to conduct a time-critical removal action at the Lake Calumet Smelter Site (Site) in Chicago, Cook County, Illinois. The actions proposed herein are necessary in order to mitigate threats to public health, welfare, and the environment posed by the presence of uncontrolled hazardous substances at the Site, a former lead smelter. The presence of hazardous substances at the Site has been documented, including elevated levels of lead, cadmium and arsenic in soils.

The time-critical removal actions proposed herein will mitigate the threats by removing surface waste piles, excavating soils, and providing a protective soil cover to prevent direct contact to contaminated soils on the Site property. The presence of contaminated soils at or near the surface necessitates this removal action and requires that this removal be classified as time-critical. EPA's response action may also include sampling of residential yards in the surrounding area in an attempt to determine if past activities at the Site have impacted these residential areas.

These response actions will be conducted in accordance with Section 104(a)(1) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9604(a)(1), and 40 C.F.R. § 300.415 of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) to abate or eliminate the immediate threats posed to public health and/or the environment. The uncontrolled conditions of the hazardous substances present at the Site require that this action be classified as a time-critical removal action.

There are no nationally significant or precedent setting issues associated with the proposed response at this non-NPL site.

## **II. SITE CONDITIONS AND BACKGROUND**

CERCLIS ID # ILN000509228

State ID: LPC# 031509228

Category: Time-Critical Removal Action

### **A. Site Description**

#### **1. Removal site evaluation**

On August 10, 2004, personnel from the Illinois Environmental Protection Agency (IEPA) collected field based soil and debris data with an X-Ray Fluorescence unit (XRF). Nine soil locations were analyzed around the outside of the concrete floor, foundation and surrounding area within the property boundary. In addition to the nine soil locations, one location on the concrete floor of the former structure was analyzed. Screening results indicated that contamination exists throughout the property. Soil contamination was detected not only on the floor of the former building, but also detected at various locations away from the former structures throughout the property. Results were compared to industrial regional screening levels (RSLs):

- Lead was above the industrial RSL of 800 mg/kg at all ten sampling locations with concentrations ranging between 7,480 milligrams per kilogram (mg/kg) – 768,000 mg/kg.
- Arsenic was above the industrial RSL of 1.6 mg/kg in 9 of 10 samples ranging less than the limit of detection – 36,300 mg/kg.

On April 21 - 24, 2008, IEPA personnel collected twenty-five soil samples, nine Toxicity Characteristic Leaching Procedure (TCLP) soil samples, one waste sample, five sediment samples, and three groundwater samples as part of the CERCLA Site Inspection (SI) for the Site. Two background soil samples were collected and one background sediment sample was collected, these are included in the number of samples noted above. IEPA analyzed all samples for the full Target Compound List (TCL) which includes metals, semi-volatile organic compounds (SVOC), total volatile organic compounds (VOC), and pesticides/aroclor. Laboratory analytical results of the soil samples were compared to industrial RSLs and regulatory limits for toxicity.

- In the 25 soil samples collected, lead was above the industrial RSL of 800 mg/kg in 19 of the samples. Surface sample concentrations ranged from 521 mg/kg (background) to 54,000 mg/kg.
- Sediment samples for total lead along the north perimeter ranged from 469 mg/kg to 15,000 mg/kg.
- All nine samples analyzed with the TCLP method exceeded the TCLP limit for lead of 5 milligrams per liter (mg/L). TCLP levels ranged from 11 mg/L to 1,700 mg/L.
- Three samples exceeded the TCLP limit for cadmium of 1 mg/L with levels ranging from 1.8 mg/L to 7.3 mg/L.

Based on the sampling results, EPA calculated the total area of contamination to be approximately 5.7 acres (248,292 square feet).

EPA conducted a site visit on January 26, 2012, to document and photograph the current conditions at the Site.

## **2. Physical location**

The Site is an inactive, abandoned metal producing operation located at 11901 South Champlain Avenue, Chicago, Cook County, Illinois. The geographical coordinates for the Site are latitude 41.678° north and longitude -87.606° west. The Site is at the southern end of the City of Chicago, approximately 3000 feet south of East 115<sup>th</sup> Street. Interstate 94 is visible approximately 1500 feet east of the former facility.

The former Lake Calumet Smelter property is situated in a light to medium industrial area approximately one half mile east of the nearest residential neighborhood. Bordering the property on the north is 119<sup>th</sup> Street (unpaved and currently not in use as a street), beyond which is an open mowed grass field that is part of the Sherwin-Williams Paint Company property; on the east is bare, filled, open property that is a portion of a storage tank container company, beyond which is I-94; on the south is bare, filled, open property that is another portion of the storage tank container company; and to the west is South Champlain Avenue (unpaved and currently not used as a street), beyond which are railroad siding tracks and an unknown manufacturing company.

No residential dwellings, schools or daycare facilities are within two hundred feet of the property. Several grade schools are within one mile of the Site. Schools are located north, northwest, west, and southwest of the property.

EPA screened the area surrounding the Site for Environmental Justice (EJ) concerns using Region 5's EJ Assist Tool (which applies the interim version of the national EJ Strategic Enforcement Assessment Tool (EJSEAT)). Census tracts with a score of 1, 2, or 3 are considered to be high-priority potential EJ areas of concern according to EPA Region 5. The Site is in a census tract with a score of 1. Therefore, Region 5 considers this a high-priority potential EJ area of concern. Please refer to the attached EJ analysis for additional information (Attachment 5).

## **3. Site characteristics**

From 1894 to 1948 the property was owned by Illinois Terra Cotta Lumber Company. The company had structures over approximately 3 acres of the site, including kilns, drying rooms, mechanical shop, an engine room, and storage yards. In 1948, the Illinois Terra Cotta Lumber Company ceased business and some of the site structures were razed or altered during establishment of Lake Calumet Smelting Company.

From 1948 to the early 1970s, the property was owned by Lake Calumet Smelter Company. According to the Metal Industry Directory, Standard Metal Directory 1963 – 1964 Edition, the Lake Calumet Smelter Company was listed as a zinc smelter, smelter of secondary lead, tin,



babbitt, and solder and a wholesale dealer that specialized in scrap metal, located at 651 E. 119<sup>th</sup>, Chicago, Illinois. Material listed as produced were bulk units of babbitt, solder, lead, tin, zinc and die cast metal available for shipping to customers. To produce these metals, the process consumed a variety of scrap; bell metal, die cast scrap, metal clippings, castings, turnings, and wire. Waste material from the process appears to be metal slag which was spread throughout the property. No known metal fabrication processes were carried out at this facility. No ferrous metals were utilized or produced.

In the early 1970s, the property was purchased by the Lake Calumet Building Corporation which then leased the site to Inland Metals Refining Company. In September 1980, Inland Metals Refining submitted Part A of their RCRA permit application to operate as a generator and treatment, storage and disposal facility. Two units were listed as handling hazardous wastes: a container storage area and a waste pile. Inland Metal Refining had consistent problems complying with environmental regulations. In 1989, the facility went bankrupt and the Site was referred to the EPA Superfund program.

Currently, the Site consists of a large concrete building foundation with the remains of a smoke stack still on the north half of the property. Numerous waste piles are located at the southwest corner, and site topography would indicate that some waste material had been spread over the southeast area of the Site. Several poly containers were identified which could possibly contain baghouse dust. No other former facility structures were present or visible. Chain link fencing topped with barbed wire surrounded the former facility, but is in poor condition with numerous gaps that allow easy access.

**4. Release or threatened release into the environment of a hazardous substance, or pollutant, or contaminant**

A release or threat of release of hazardous substances, pollutants, or contaminants is present at the Site by the presence of hazardous substances as defined by Section 101(14) of CERCLA including arsenic and lead.

**5. NPL status**

The Site is not on the National Priorities List. The SI recommended that the Site not continue through the Superfund site assessment process.

**6. Maps, pictures and other graphic representations**

Attachment 4 - Site Location Map and Attachment 5 - Environmental Justice (EJ) Analysis are included as attachments.

**B. Other Actions to Date**

**1. Previous actions**

No previous actions have been conducted.

## **2. Current actions**

No actions are currently being conducted at the Site.

### **C. State and Local Authorities' Roles**

#### **1. State and local actions to date**

In September 1980, Inland Metal Refining submitted Part A of its RCRA permit application to operate as a generator and treatment, storage, and disposal facility. Two units were listed as handling hazardous wastes: a container storage area and a waste pile. Various field inspections were conducted in subsequent years after Inland Metals and Refining's submittal of Part A of their RCRA permit application. IEPA noted on a regular basis RCRA violations during inspections carried out periodically from 1980 through bankruptcy in October 1989. In June 1983 Inland Metals and Refining had monitoring wells installed on the property. Samples indicated the presence of ammonia, arsenic, iron, lead, zinc, silver, mercury, and chromium. In March 1984, Inland Metals and Refining signed a State Consent Order agreeing to operate in complete compliance with treatment, storage and disposal regulations. A Preliminary Assessment was conducted in May 1985 by IEPA. Additional sampling was conducted by IEPA during January 1987. IEPA follow-up field inspections were completed at the Site in December 1989, November 1992, October 1993, and May 2002. In November 1993 HARZA Environmental Services, Inc. submitted a proposal for Limited Phase I Site Characterization to IEPA. In May 1997, HARZA submitted the Draft Phase I Site Characterization Technology Assessment Report to IEPA.

In a letter dated January 3, 2012, Bruce Everetts with the IEPA Office of Site Evaluation requested EPA's assistance in mitigating the potential threats at the Site.

#### **2. Potential for continued State/local response**

State and local authorities do not have the financial resources to address this Site.

### **III. THREATS TO PUBLIC HEALTH, WELFARE, OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES**

The conditions at the Site present an imminent and substantial threat to the public health, or welfare, and the environment, and meet the criteria for a time-critical removal action as provided for in the National Contingency Plan (NCP), 40 C.F.R. § 300.415(b)(2). These criteria include, but are not limited to, the following:

**Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants;**

Sampling events conducted by IEPA have documented that hazardous substances, including lead, arsenic and cadmium are present at the Site in surface and subsurface soil. Lead, arsenic and cadmium were detected above RSLs, and are identified as hazardous substances as defined by

Section 101(14) of CERCLA. While the Site is fenced, gaps exist at multiple locations. Trespassers or vandals could come into direct contact with the contaminated surface soils at the Site, and track this contamination off-site. Off-site migration of the documented hazardous waste would greatly increase the potential exposure to nearby human populations, animals, or the food chain. The Site is located in a mixed commercial and industrial area with residential neighborhoods within ½ mile and several schools within one mile of the property.

The Agency for Toxic Substances and Disease Registry (ATSDR) has studied the health effects of these hazardous substances, and information about each is provided below.

Lead can affect almost every organ and system in the body. The main target for lead toxicity is the nervous system, both in adults and children. Long-term exposure of adults can result in decreased performance in some tests that measure functions of the nervous system. It may also cause weakness in fingers, wrists, or ankles. Lead exposure also causes small increases in blood pressure, particularly in middle-aged and older people and can cause anemia. Exposure to high lead levels can severely damage the brain and kidneys in adults or children and ultimately cause death. In pregnant women, high levels of exposure to lead may cause miscarriage. High-level exposure in men can damage the organs responsible for sperm production. The Department of Health and Human Services (DHHS) has determined that lead and lead compounds are reasonably anticipated to be human carcinogens and the EPA has determined that lead is a probable human carcinogen (ATSDR, CAS # 7439-92-1, August 2007).

Ingesting very high levels of arsenic can result in death. Exposure to lower levels can cause nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of "pins and needles" in hands and feet. Ingesting or breathing low levels of inorganic arsenic for a long time can cause a darkening of the skin and the appearance of small "corns" or "warts" on the palms, soles, and torso. Skin contact with inorganic arsenic may cause redness and swelling. Several studies have shown that ingestion of inorganic arsenic can increase the risk of skin cancer and cancer in the liver, bladder, and lungs. Inhalation of inorganic arsenic can cause increased risk of lung cancer. DHHS and the EPA have determined that inorganic arsenic is a known human carcinogen (ATSDR, Chemical Abstract Services [CAS] # 7440-38-2, August 2007).

Breathing high levels of cadmium can severely damage the lungs. Eating food or drinking water with very high levels severely irritates the stomach, leading to vomiting and diarrhea. Long-term exposure to lower levels of cadmium in air, food, or water leads to a buildup of cadmium in the kidneys and possible kidney disease. Other long-term effects are lung damage and fragile bones. DHHS has determined that cadmium and cadmium compounds are known human carcinogens (ATSDR, Chemical Abstract Services [CAS] # 7440-43-9, September 2008).

**High levels of hazardous substances, pollutants, or contaminants in soils largely at or near the surface that may migrate;**

Analytical results of soil samples collected by IEPA at the Site have indicated the presence of elevated levels of lead, cadmium, and arsenic at or near the surface. IEPA has documented total

lead levels in particular well above the RSL of 800 mg/kg for industrial properties. The majority of the elevated lead levels have been detected in the first two feet below ground surface (bgs), and the lead contamination is prevalent across the entire 5.7-acre Site. Lead and cadmium have been found above the RCRA hazardous waste standard (D008 and D006 characteristic waste) in several surficial samples as well. Some areas across the Site have little or no vegetative cover which increases the potential for the lead contaminated soils to migrate off-site. Trespassing has been documented at the Site in the past, and the presence of the contaminated soils at the surface increases the potential for off-site migration of these contaminants as a result of any trespassing activities.

**Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released;**

Large rain or snow melt events, coupled with inadequate vegetative cover, could result in the off-site migration of the contaminated surface soils at the Site. In addition, high winds could also allow the heavy metal contaminated surface soils to migrate off site and impact the surrounding properties.

**The availability of other appropriate federal or state response mechanisms to respond to the release;**

In January 2012, IEPA submitted a written request to U.S. EPA asking for assistance with the Site. IEPA does not have the resources to mitigate the threat of release.

#### **IV. ENDANGERMENT DETERMINATION**

Given the Site conditions, the nature of the known and suspected hazardous substances on Site, and the potential exposure pathways described in Sections II and III above, actual or threatened releases of hazardous substances from the Site, if not addressed by implementing the response actions selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

#### **V. PROPOSED ACTIONS AND ESTIMATED COSTS**

##### **A. Proposed Actions**

##### **1. Proposed action description**

The response actions described in this memorandum directly address actual or potential releases of hazardous substances on Site, which may pose an imminent and substantial endangerment to public health, or welfare, or the environment. Removal activities on Site will include:

- a. Develop and implement Site plans including a Site-specific Health and Safety Plan, Sampling Plan, and Work Plan;
- b. Consolidate and remove non-hazardous site debris and vegetation;

- c. Based upon a Site Specific Sampling Plan, conduct extent of contamination sampling both on and off-site to further delineate the extent of contaminated surface soil;
- d. Remove contaminated waste piles and treat material with a fixation agent prior to disposal;
- e. Excavate contaminated soil with concentrations above the industrial RSL of 800 mg/kg for lead, 380 mg/kg for arsenic, and 10,000 mg/kg cadmium and treat the material with a fixation agent prior to disposal. Soils above the RSLs will be removed down to a baseline elevation to facilitate re-grading of the Site, but not to exceed a maximum depth of approximately 24 inches below ground surface;
- f. Backfill excavated areas with clean materials. Excavated areas where soil concentrations remain above the RSLs will be backfilled with 24 inches of clean material;
- g. Restore excavated/disturbed areas and vegetate to prevent soil erosion;
- h. Secure Site through repair and/or replacement of existing fencing as appropriate;
- i. Take any necessary response actions to address any Site related release or threatened release of a hazardous substance, pollutant, or contaminant that the EPA determines may pose an imminent and substantial endangerment to the public health or the environment.

The removal actions will be taken in a manner not inconsistent with the National Contingency Plan (NCP). The OSC has initiated planning for provision of post-removal site control consistent with the provisions of Section 300.415(l) of the NCP.

#### Off-Site Rule

All hazardous substances, pollutants, or contaminants removed off-site pursuant to this removal action for treatment, storage, and disposal shall be treated, stored, or disposed of at a facility in compliance, as determined by EPA, with the EPA Off-Site Rule, 40 C.F.R. § 300.440.

#### **2. Contribution to remedial performance:**

The proposed action will not impede future actions based on available information.

#### **3. Engineering Evaluation/Cost Analysis (EE/CA)**

Not Applicable

#### **4. Applicable or relevant and appropriate requirements (ARARs)**

All applicable, relevant, and appropriate requirements (ARARs) of Federal and State law will be complied with to the extent practicable considering the exigencies of the circumstances.

#### Federal RCRA Subtitle C

State  
Bruce Everetts of the IEPA Site Assessment Unit was contacted on September 11, 2012, requesting the identification of any State ARARs.

## 5. Project Schedule

The activities described in this memorandum will require an estimated 45 days to complete.

### B. Estimated Costs

The detailed cleanup contractor cost is presented in Attachment 1 and the Independent Government Cost Estimate is presented in Attachment 2. Estimated project costs are summarized below:

REMOVAL ACTION PROJECT CEILING ESTIMATE	
<b><u>Extramural Costs:</u></b>	
<b><u>Regional Removal Allowance Costs:</u></b>	
Total Cleanup Contractor Costs (This cost category includes estimates for ERRS, subcontractors, Notices to Proceed, and Interagency Agreements with Other Federal Agencies. Includes a 20% contingency)	\$1,682,148
<b><u>Other Extramural Costs Not Funded from the Regional Allowance:</u></b>	
Total START, including multiplier costs	25,500
Total Decontamination, Analytical & Tech. Services (DATS)	
Total CLP	
Subtotal	25,500
Subtotal Extramural Costs	\$1,707,648
Extramural Costs Contingency (15% of Subtotal, Extramural Costs)	\$ 256,147
<b>TOTAL REMOVAL ACTION PROJECT CEILING</b>	<b>\$1,963,795</b>

The detailed cleanup contractor cost is presented in Attachment 1 and the Independent Government Cost Estimate is presented in Attachment 2. Estimated project costs are summarized below:

The response actions described in this memorandum directly address the actual or threatened releases of hazardous substances, or of pollutants, or of contaminants at the Site which may pose an imminent and substantial endangerment to public health or welfare or to the environment. These response actions do not impose a burden on affected property disproportionate to the extent to which that property contributes to the conditions being addressed.

## **VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN**

Delayed or non-action at the Site increases the potential for the off-site migration of the hazardous materials documented at the facility. In addition, delayed or non-action at the Site increases the potential for trespassers and/or vandals to experience inhalation or direct contact exposures to the hazardous wastes at the Site.

## **VII. OUTSTANDING POLICY ISSUES**

There are no outstanding policy issues associated with the Site.

## **VIII. ENFORCEMENT**

For administrative purposes, information concerning the enforcement strategy for this Site is contained in an Enforcement Confidential Addendum.

EPA estimates that the total costs for this removal action based on full-cost accounting practices that will be eligible for cost recovery are \$3,212,314.<sup>1</sup>

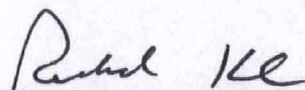
$$(\$1,963,795 + 23,900) + (61.61\% \times \$1,962,195) = \$3,212,314$$

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<sup>1</sup>Direct Costs include direct extramural costs and direct intramural costs. Indirect costs are calculated based on an estimated indirect cost rate expressed as a percentage of site-specific direct costs, consistent with the full cost accounting methodology effective October 2, 2000. These estimates do not include pre-judgment interest, do not take into account other enforcement costs, including Department of Justice costs, and may be adjusted during the course of a removal action. The estimates are for illustrative purposes only and their use is not intended to create any rights for responsible parties. Neither the lack of a total cost estimate nor deviation of actual total costs from this estimate will affect the United States' right to cost recovery.

## IX. RECOMMENDATION

This decision document represents the selected removal action for the Site in Chicago, Illinois, developed in accordance with CERCLA, as amended, and is not inconsistent with the NCP. This decision is based upon the Administrative Record for the Site. Conditions at the Site meet the NCP Section 300.415(b)(2) criteria for a removal and I recommend your approval of the proposed removal action. The total project ceiling, if approved, will be \$1,963,795. Of this, as much as \$1,938,295 comes from the Regional removal allowance. You may indicate your decision by signing below.

APPROVE:  DATE: 9-24-12  
Director, Superfund Division

DISAPPROVE: \_\_\_\_\_ DATE: \_\_\_\_\_  
Director, Superfund Division

### Enforcement Addendum Attachments

1. Detailed Cleanup Contractor Cost Estimate
2. Administrative Record Index
3. Independent Government Cost Estimate
4. Site location Map
5. EJ Analysis

cc: S. Fielding, EPA 5104A  
L. Nelson, U.S. Department of Interior, **w/o Enf. Attachment**  
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K. Schnoes, Chicago Department of Public Health, **w/o Enf. Addendum**  
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bcc: J. Glover, MRS-10J, w/o Enf. Attachment  
J. El-Zein, SE-GI  
S. Borries, SE-5J  
M. Ribordy, SE-5J  
M. Johnson, ATSD-4J, w/o Enf. Addendum  
T. Marks, SE-5J  
Public Affairs, P-19J, w/o Enf. Addendum  
ERB Read File (C. Beck), SE-5J  
ERB Delivery Order File (C. Norman/ G. Stanuch), SE-5J  
ERB Site File (M. Bedford), SMR-7J  
Contracting Officer, MCC-10J, w/o Enf. Addendum  
B. Benning, SE-5J  
K. Vezner, C-14J  
D. Keating, SE-5J  
S. Mendoza, C-14J









**ATTACHMENT 1**

**DETAILED CLEANUP CONTRACTOR ESTIMATE  
LAKE CALUMET SMELTER SITE  
CHICAGO, COOK COUNTY, ILLINOIS**

The estimated cleanup contractor costs necessary to complete the removal action at the Lake Calumet Smelter Site are as follows:

Personnel	\$ 211,500
Equipment	\$ 132,075
Materials	\$ 333,215
Transportation and Disposal	<u>\$ 725,000</u>
<b>TOTAL</b>	<b>\$1,401,790</b>

(\*Does not include 20% contingency)

## ATTACHMENT 2

### U.S. ENVIRONMENTAL PROTECTION AGENCY REMOVAL ACTION

#### ADMINISTRATIVE RECORD FOR LAKE CALUMET SMELTER SITE CHICAGO, COOK COUNTY, ILLINOIS

ORIGINAL  
AUGUST 22, 2012

<u>NO.</u>	<u>DATE</u>	<u>AUTHOR</u>	<u>RECIPIENT</u>	<u>TITLE/DESCRIPTION</u>	<u>PAGES</u>
1	00/00/00	U.S. EPA	File	Table 1: Analytical Results for Soil (Qualified Data) for the Lake Calumet Smelter Site (MS EXCEL FILE)	
2	00/00/00	U.S. EPA	File	Table 3: Analytical Results for Groundwater (Qualified Data) for the Lake Calumet Smelter Site (MS EXCEL FILE)	
3	04/21/08	Illinois EPA	Benning, B., U.S. EPA	Site Assessment Report for the Lake Calumet Smelter Site	18
4	01/03/12	Everetts, B., Illinois EPA	Ribordy, M., U.S. EPA	Letter re: Referral of Lake Calumet Smelter Site to U.S. EPA	2
5	00/00/00	Benning, B., U.S. EPA	Karl, R., U.S. EPA	Action Memorandum re: Request for Approval and Funding for a Time-Critical Removal Action at the Lake Calumet Smelter Site (PENDING)	

### ATTACHMENT 3

#### INDEPENDENT GOVERNMENT COST ESTIMATE LAKE CALUMET SMELTER SITE CHICAGO, COOK COUNTY, ILLINOIS

Assumed 45 ten hour work days.

Assumed all work will be SCA labor rates, except for the backfilling activities, which will be DBA labor rates.

Assumed 15,000 tons of hazardous soils could be shipped off-site for disposal. This assumes excavation on site will not exceed a depth of approximately 2 feet.

##### Personnel:

RM (1) x 450hrs x \$65	\$ 29,250
Operator (5) x 450hrs x \$75	168,750
Tech (1) x 450hrs x \$30	<u>13,500</u>
	\$ 211,500

##### Equipment:

Excav (2) x 45 days x \$600	\$ 54,000
Art. Dump (1) x 45 days x \$600	27,000
Frnt. Loader (1) x 45 days x \$500	22,500
Dozer (1) x 45 days x \$500	22,500
Pick-up trk (3) x 45 days x \$45	<u>6,075</u>
	\$ 132,075

##### Treatment,Transportation and Disposal:

15,000 cyds x \$25yd (Disposal,non-hazardous)	\$ 375,000
15,000 cyds x 10yd (Treatment)	150,000
1000 loads x \$200/load (Transportation)	<u>200,000</u>
	\$ 725,000

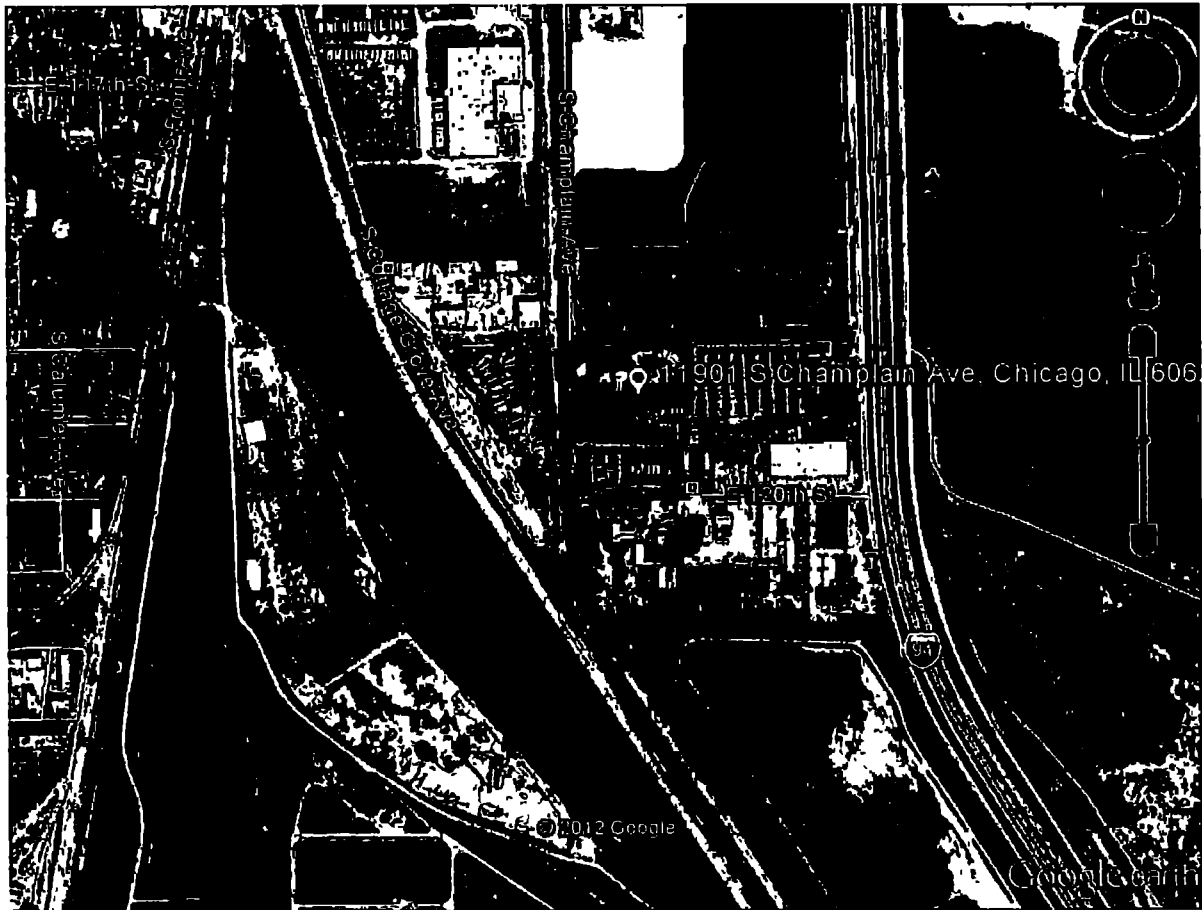
##### Materials:

15,000cyds x \$15yd	\$ 225,000
Per Diem (7) x \$261 x 45days	82,215
Miscell. Supplies, analytical, trailers, fuel	<u>26,000</u>
	\$ 333,215

<b>TOTAL</b>	<b>\$1,401,790</b>
--------------	--------------------



**ATTACHMENT 4**  
**SITE LOCATION MAP**  
**LAKE CALUMET SMELTER SITE**



## ATTACHMENT 5

### EJ ANALYSIS

#### LAKE CALUMET SMELTER SITE

##### Region 5 EJAssist Report

Close Window

1901 S Champlain Ave, Chicago, IL 60628

##### Project Location Map



##### Geographic coordinates:

POINT (-87.605751,41.677670) with buffer 1.0 miles

Project Location

-87.605751,41.67767

☒ Eco

☒ Demog

Within 1.0 miles of a Tribal Land?

no

Within 1.0 miles of Census Tracts designated as a high-priority area of potential environmental justice concern?

yes

☒ Facility

**REMOVAL PROGRAM  
ACTION MEMORANDUM  
ELECTRONIC ROUTING AND CONCURRENCE SLIP**

LAKE CALUMET SMELTER SITE      B5FM

(Site Name)

1) ON-SCENE COORDINATOR ( BRAD BENNING )  
Signature BPB Date: 8/21/2012

2) ADMINISTRATIVE RECORDS COORDINATOR ( EVETT JONES )  
Signature TDQ Date: 8/27/12  
( 1 - day turnaround)

3) OFFICE OF REGIONAL COUNSEL:  
STAFF ATTORNEY ( KRIS VEZNER )  
Signature Kris Vezner Date: 8/28/12

ORC SUPERVISOR ( Stephen Mendoza )  
Signature Stephen Mendoza Date: August 27, 2012  
(3-day turnaround)

4) ON-SCENE COORDINATOR ( BRAD BENNING )  
Signature Brad Benning Date: 8/31/12

5) SECTION CHIEF, III ( MIKE RIBORDY )  
Signature MWR Date: 9/19/12  
(3-day turnaround)

6) BRANCH CHIEF, ERB / II ( SAM BORRIES )  
Signature Sam Borries Date: 9-21-12  
(3-day turnaround)

7) SECTION SECRETARY PRINT/ LOG-OUT( ANN PHELPS )  
Signature AP/ 9-21- Date: 9-21-12  
(1-day turnaround)

8) DIRECTOR, SUPERFUND DIVISION (Richard C. Karl) (MC S-6J)  
Signature R. 111 Date: 9-24-12

9) BRANCH SECRETARY ( CYNTHIA BECK )  
Signature CB Date: 9-24-12  
(1-day turnaround)

10) RECORDS CENTER SDMS CONTRACTOR (MC SMR-7J)  
Signature \_\_\_\_\_ Date: \_\_\_\_\_  
( 3 - day turnaround) v 2/5/09



## **Reference 2**

**TITLE SEARCH REPORT  
FOR  
LAKE CALUMET SMELTING SITE  
CHICAGO, COOK COUNTY, ILLINOIS**

**NPL STATUS: NON-NPL**

**Prepared for:**

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Emergency Response Branch  
Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3507**

**Prepared by:**

**WESTON SOLUTIONS, INC.  
20 North Wacker Drive, Suite 1210  
Chicago, Illinois 60606**

<b>Date Prepared</b>	<b>July 25, 2012</b>
<b>Technical Direction Document Number</b>	<b>S05-0009-1205-101</b>
<b>Document Control Number</b>	<b>1861-2A-AWWK</b>
<b>Contract Number</b>	<b>EP-S5-06-04</b>
<b>WESTON START Project Manager</b>	<b>Lisa Graczyk</b>
<b>Telephone Number</b>	<b>312-424-3339</b>
<b>WESTON START Technical Lead</b>	<b>Mandy Ford</b>
<b>U.S. EPA Enforcement Specialist</b>	<b>Debbie Keating</b>

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## TABLE OF CONTENTS

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Section	Page
1. INTRODUCTION.....	1
1.1 METHODOLOGY .....	1
1.2 LEGAL DESCRIPTION .....	1
2. CURRENT OWNERSHIP INFORMATION .....	4
3. TITLE NARRATIVE .....	4

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## **LIST OF APPENDICES**

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**Appendix A**      Title References

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## **LIST OF ATTACHMENTS**

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**Attachment A**      Abstract of Title  
**Attachment B**      Title References A-1 through A-5  
**Attachment C**      Title Tree

# **1. INTRODUCTION**

The United States Environmental Protection Agency (U.S. EPA) Region V requested that Weston Solutions, Inc. (WESTON®) perform title search activities for the Lake Calumet Smelting Site (the Site), located at 11901 South Champlain Avenue, Chicago, Cook Country, Illinois. The objective of this title search is to compile a property chain-of-title from 1945 to the present and to summarize the information into a final title search report.

## **1.1 METHODOLOGY**

The U.S. EPA Enforcement Specialist, Ms. Debbie Keating, provided the research objectives for this assignment and directions regarding the information to be developed. Guaranty National Title Company of Chicago, Illinois collected title documents. Information regarding the condition of title for the property is described in Section 3.

## **1.2 LEGAL DESCRIPTION**

The land referred to herein below is situated in County of Cook, State of Chicago, and is described as follows:

### **Parcel 1**

That part of the South fractional half of Section 22, Township 37 North, Range 14, East of the Third Principal Meridian, lying South of the Indian Boundary line, described as follows; Beginning at a point which is 365 feet due East from the point of Intersection of the Indian Boundary line and the South line of the South East fractional quarter (North of Indian Boundary Line) of Section 22; Township 37 North, Range 14 East of the Third Principal Meridian said point of Intersection being marked by a stone monument; thence running South 474 ½ feet; thence running East 459 feet to the place of beginning.

Also the premises described as follows:

### **Parcel 2**

Beginning at a point which is 824 feet due East from the point of Intersection of the Indian Boundary Line and the South Line of the South East fractional quarter North of Indian Boundary Line of Section 22 (Township 37 North, Range 14, East of the Third Principal Meridian at point of intersection being marked by a stone monument; thence beginning South 474 ½ feet thence running East 65 feet thence running North 474 ½ feet thence running West 65 feet to the place of beginning.

Also:



**Parcel 3**

Commencing at a point in a line parallel to and 33 feet South of the South line of the South East quarter of Section 22, Township thirty seven North, Range 14, East of the Third Principal Meridian, lying North of the Indian Boundary Line where said parallel line extended East intersects a line 100 feet West of and parallel to the West line of Stephenson Avenue (as said Stephenson Avenue is now located in the North East quarter of said Section 22 North of Indian Boundary line) produced South; thence South on a line parallel to the West line of Stephenson Avenue produced South 441.5 feet, thence West 98.66 feet on a line parallel to the West line of Stephenson Avenue produced South 441.5 feet to a point in the first mentioned parallel line; thence East along the first mentioned parallel line; 98.66 feet to the place of beginning in Cook County, Illinois.

This property is commonly known as 11901 S. Champlain Avenue, Chicago, Illinois 60628

Parcel Identification No. 25-22-401-002-0000

A parcel map is included as Figure 1.

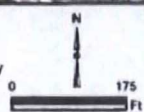


FILE D:\Lake\_Calumet\GIS\Shapefiles\Parcel\_Map.mxd 2/2/2016 10:15:00 AM 10/20/17 Region

#### Legend

- Parcel Boundary
- Parcel of Concern Boundary

Note: Parcel Data Digitized from Sidewest PDF Map



Prepared for:  
U.S. EPA REGION V  
Contract No. EP-S5-06-04  
TDD: S05-0009-1205-101  
DCN: 1861-2A-AWWK



Prepared By  
WESTON  
SOLUTIONS, INC  
20 N Wacker Dr  
Suite 1210  
Chicago, IL 60606

Figure 1  
Parcel Map  
Lake Calumet Smelting Site  
Chicago, Cook County, Illinois

## **2. CURRENT SITE OWNERSHIP INFORMATION**

The Site property is currently owned by Lake Calumet Building Corp., an Illinois Corporation. Real property taxes for the Site are outstanding for the tax year 2010 in the amount of \$12,819.50 for the first half of the tax year, and \$11,505.39 for the second half of the tax year. These taxes are scheduled for Forfeiture and Tax Sale scheduled for August 7, 2012. The taxes are also delinquent for the tax year 2011 in the amount of \$13,378.69 for the first half. Taxes for the second half of 2011 are not yet due and payable.

## **3. TITLE NARRATIVE**

Prior to June 29, 1921, a portion of the Site property was owned by Illinois Terra Cotta Lumber Company, an Illinois corporation. On June 29, 1921, Illinois Terra Cotta Lumber Company executed a Deed to transfer its interest in the Site property to National Fire Proofing Company (A-1).

On October 9, 1930, National Fire Proofing Company executed a Deed conveying the same Site property it acquired from Illinois Terra Cotta Lumber Company, as well as remaining Site property acquired from John A. Hammet, et al. on August 2, 1926, to National Fireproofing Corporation, a Pennsylvania corporation (A-2).

On March 18, 1943, National Fireproofing Corporation executed a Quit-Claim Deed conveying canal easement rights to Department Of Public Works and Buildings of The State of Illinois (A-3).

On December 1, 1947, National Fireproofing Corporation executed a Deed, conveying the Site property to Samuel Schachter (A-4).

On March 16, 1948, Samuel Schachter and Janet Schachter, his wife, executed a Quit-Claim Deed in favor of Lake Calumet Building Corp., an Illinois Corporation, conveying the Site property (A-5).

## **TITLE REFERENCES**

- A-1 Deed. Illinois Terra Cotta Lumber Company, Grantor; National Fire Proofing Company, Grantee; dated June 29, 1921; recorded July 7, 1921
- A-2 Deed. National Fire Proofing Company, Grantor; National Fireproofing Corporation, Grantee; Dated October 9, 1930; Recorded on October 10, 1930
- A-3 Quit-Claim Deed. National Fireproofing Corporation, Grantee; Department of Public Works and Buildings of the State of Illinois, Grantor; dated March 18, 1943; recorded on March 23, 1943
- A-4 Deed. National Fireproofing Corporation, Grantor; Samuel Schachter, Grantee; dated December 1, 1947; recorded On December 4, 1947
- A-5 Quit-Claim Deed. Samuel Schachter and Janet E. Schachter, Grantors; Lake Calumet Building Corp., Grantee; dated March 16, 1948; recorded on March 25, 1948



## **Reference 3**





## **Reference 4**



U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Lake Calumet Smelter - Removal Polrep  
Initial Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V

**Subject:** POLREP #1  
INITIAL  
Lake Calumet Smelter  
B5FM  
Chicago, IL  
Latitude: 41.6776690 Longitude: -87.6057530

**To:** Bradley Benning, ERB  
Mark Johnson, ATSDR  
Valencia Darby, Department of Interior  
Bruce Everetts, Illinois EPA  
Sam Borries, U.S. EPA  
Mark Durno, U.S. EPA  
Jason El-Zein, U.S. EPA  
Sherry Fielding, U.S. EPA  
Charlie Gebien, U.S. EPA  
John Glover, U.S. EPA  
John Maritote, U.S. EPA  
Thomas Marks, U.S. EPA  
Mike Ribordy, U.S. EPA  
Carol Ropski, U.S. EPA  
USCG PolRep Distribution, USCG  
debbie Keating, EESS  
Lindy Nelson, U.S. DOI  
Yolanda Bouchee-Cureton, U.S. EPA  
Ann Whelan, U.S. EPA

**From:** Bradley Benning, OSC  
**Date:** 10/15/2013  
**Reporting Period:** 10/07/2013 to 10/15/2013

**1. Introduction**

**1.1 Background**

<b>Site Number:</b>	B5FM	<b>Contract Number:</b>	EP-S5-08-04
<b>D.O. Number:</b>	054	<b>Action Memo Date:</b>	9/27/2013
<b>Response Authority:</b>	CERCLA	<b>Response Type:</b>	Time-Critical
<b>Response Lead:</b>	EPA	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	10/7/2013	<b>Start Date:</b>	10/7/2013
<b>Demob Date:</b>		<b>Completion Date:</b>	
<b>CERCLIS ID:</b>	ILN000509228	<b>RCRIS ID:</b>	ILD980503213
<b>ERNS No.:</b>		<b>State Notification:</b>	

FPN#:

Reimbursable Account #:

**1.1.1 Incident**

Time-Critical Removal Action

**1.1.2 Site Description**

The subject property is situated in an urban/industrial setting within the City of Chicago. Bordering the property on the north is 119th Street (unpaved and currently not in use as a street), beyond which is an open mowed grass field that is part of the Sherwin-Williams Paint Co. property; on the east is bare, filled, open property that is a portion of a storage tank container company, beyond which is I-94; on the south is bare, filled, open property that is another portion of the storage tank container company, and to the west is S. Champlain Ave. (unpaved and currently not used as a street), beyond which are railroad siding tracks and an unknown manufacturing company. Information obtained from the Cook County Assessor's Office indicates that the facility's former structure, driveway and parking areas occupy a rectangular shaped property on approximately 5.7 acres of land. According to a 1936 – 1950 Sanborn Fire Insurance Map, the former facility consisted of a two story main building with two one story rooms attached to the south and a one level storage room attached to the west. What appears to be a separate, small smelting building containing a vat was located south and adjacent to the storage room. At some point between the late 1950's to late 1960's, Calumet Lead ceased doing business. Based on United States Geological Survey (USGS) aerial photography from 1998 and 2002 and observations of IEPA personnel during the August 10, 2004 PCS Assessment, and April 25, 2006 site reconnaissance portion of the PA, all that remains of the former structures is a portion of a smoke stack. All other structures have been razed.

**1.1.2.1 Location**

The Calumet Lead site is an inactive, abandoned metal producing operation located at 11901 S. Champlain Ave., Chicago, Illinois, Township 37 North, Range 14 East, Section 22, Latitude 41 678, Longitude -87.606, in Hyde Park Township, Cook County. The Site was located at the southern end of the City of Chicago, approximately 3000 feet south of E. 115th Street. Interstate 94 is visible approximately 1500 feet east of the facility.

**1.1.2.2 Description of Threat**

Lead, arsenic, and cadmium were detected above Removal Screening Levels (RSLs), and are identified as hazardous substances as defined by Section 101(14) of CERCLA. While the Site is fenced, gaps exist at multiple locations, allowing potential direct contact with the contaminated soils at the Site and tracking contamination off-site exposing nearby human populations.

**1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results**

Through field based soil and debris evaluation, with the IEPA's XRF unit, soil contamination was detected not only on the floor of the former building, but also detected at various locations away from the former structures, throughout the property (lead ranged between 7480 mg/kg – 768,000 mg/kg, zinc 5110 mg/kg – 146,000 mg/kg, and arsenic less than limit of detection – 36,300 mg/kg). All locations analyzed contained one or more constituents, related to lead and zinc smelting, with concentrations well above U.S. EPA RAL's. No confirmatory soil samples were collected during the August 10, 2004 site visit. However, to confirm these preliminary observations, soil samples were collected, as part of this April 2008 SI, throughout the property. Most were collected near those locations screened with the XRF during the August 10, 2004 site visit. Laboratory analytical results of the soil samples indicate numerous compounds and analytes significantly exceeding corresponding background levels (at least 3x background) and/or SCDM benchmarks throughout the property. Lead exceeds the site soil background levels (at least 3x background) in nineteen of the soil samples. Surface level total lead samples ranged from 521 mg/kg (background) to 54,000 mg/kg. Sediment samples for total lead along the north perimeter ranged from 469 mg/kg to 15,000 mg/kg. In addition, TCLP regulatory levels for lead were exceeded in all nine samples analyzed with the TCLP method. TCLP levels ranged from 11 mg/kg to 1700 mg/kg. Cadmium levels were exceeded in three samples ranging from 1.8 mg/kg to 7.3 mg/kg. The total approximate area of soil contamination is calculated to be 5.7 acres (248,292 square feet).

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

The overall goal of this removal action is to prevent direct contact and off-site migration of contaminated soils from the LCS Site. This goal will be accomplished by removing highly contaminated surface soils and backfilling with clean earthen materials to provide a protective cover to prevent direct contact and migration of residual contaminated soils from the LCS Site.

#### 2.1.2 Response Actions to Date

10/07/2013 - Mobilized to site with limited crew to begin site prep work: install access control fencing; delivery of trackhoe and front-end loader, delivery of stone for support zone base ; begin clearing overgrown brush and trees.

10/08/2013 - Continue prep work: bushhog delivered for brush cutting, port-lets delivered, continue site clearing.

10/09/2013 - Continue prep work: access road excavated to allow delivery of backfill; initial delivery of treatment material for pilot batch treatment, continue cleaning; begin delivery of backfill; initial batch treatment completed with sample sent out for analytical

10/10/2013 - Continue prep work: continue clearing, continue backfill delivery; START mobed to site to initiate XRF screening to determine extent of excavation over the site, initial readings are extremely high to site perimeters and appear to exceed the two foot maximum excavation limit

10/11/2013 - START monitoring site during the delivery of backfill and brush clearing

10/14/2013 - START monitoring site during the delivery of backfill and clearing Several test pits were excavated to two feet across the site to determine if contamination was consistently high. XRF readings were exceeding the industrial goal of 800 - 1000 ppm for lead across the site.

10/15/2013 - Continue prep work. backfill delivery, site FCA mobed to site, clearing brush and trees; initial small batch treatment passed TCLP limits

#### 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

No PRPs were identified for this site, a Federal Warrant for Access was secured on September 12, 2013.

#### 2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

Continue site prep activities: delivery of office trailers, additional heavy equipment and crew, continue site cleaning and debris removal before excavation can begin.

#### 2.2.1.1 Planned Response Activities

- Remove site debris and clear overgrown landscape material.
- Excavate surface soils with XRF screening to concentrate removal in areas with the highest contaminant levels.
- Treatment of soils with Enviroblend FG.
- Off-site disposal of treated soils
- Backfill areas with clean earthen material to provide protective cover
- Repair/replace fencing as needed.

#### 2.2.1.2 Next Steps

- Finish debris removal and site clearing
- Begin excavation of soils and treatment for disposal

#### 2.2.2 Issues

Upon completion of the removal action a Deed Restriction will likely be place on the property as contamination beyond two feet will be present and limit future use of the property

### 2.3 Logistics Section

Managed by the ERRS FCA

### 2.4 Finance Section

#### 2.4.1 Narrative

Managed by ERRS FCA/RM and OSC

#### Estimated Costs \*

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
ERRS - Cleanup Contractor	\$1,250,000.00	\$0.00	\$1,250,000.00	100.00%
TAT/START	\$25,000.00	\$0.00	\$25,000.00	100.00%
<b>Intramural Costs</b>				
<b>Total Site Costs</b>	<b>\$1,275,000.00</b>	<b>\$0.00</b>	<b>\$1,275,000.00</b>	<b>100.00%</b>

\* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery

### 2.5 Other Command Staff

#### 2.5.1 Safety Officer

Federal OSC

#### 2.5.2 Liaison Officer

Not required

#### 2.5.3 Information Officer

Janet Pope/USEPA is the CIC for this site

**3. Participating Entities**

**3.1 Unified Command**

USEPA Fund Lead

**3.2 Cooperating Agencies**

City of Chicago  
Illinois EPA

**4. Personnel On Site**

EPA - 1  
START - 1  
ERRS - 5

**5. Definition of Terms**

RSL - Regional Screening Level  
RML - Removal Management Level  
ERRS - Emergency Removal and Response Services  
START - Superfund Technical Assessment and Response Team  
XRF - X-Ray Fluorescence  
ATSDR - Agency for Toxic Substances and Disease Registry  
PPM - Parts per million

**6. Additional sources of information**

**6.1 Internet location of additional information/**

Website: [www.epaosc.org/lakealumetsmelter](http://www.epaosc.org/lakealumetsmelter)

**6.2 Reporting Schedule**

Weekly Sitreps anticipated.

**7. Situational Reference Materials**

Repository for documents will be established at a nearby facility.  
Visit website: [www.epaosc.org/lakealumetsmelter](http://www.epaosc.org/lakealumetsmelter)

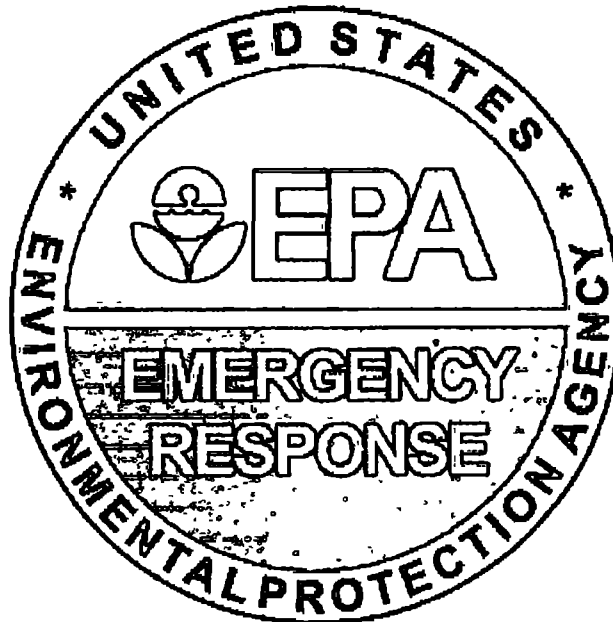
## **Reference 5**

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Lake Calumet Smelter - Removal Polrep

US EPA RECORDS CENTER REGION 5



466997



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V

**Subject:** POLREP #4  
Progress  
Lake Calumet Smelter  
B5FM  
Chicago, IL  
Latitude: 41.6776690 Longitude: -87.6057530

**To:** Bradley Benning, ERB  
Mark Johnson, ATSDR  
Valencia Darby, Department of Interior  
Bruce Everetts, Illinois EPA  
Sam Borries, U.S. EPA  
Mark Durno, U.S. EPA  
Jason El-Zein, U.S. EPA  
Sherry Fielding, U.S. EPA  
Charlie Gebien, U.S. EPA  
John Glover, U.S. EPA  
John Maritote, U.S. EPA  
Thomas Marks, U.S. EPA  
Mike Ribordy, U.S. EPA  
Carol Ropski, U.S. EPA  
USCG PolRep Distribution, USCG  
debbie Keating, EESS  
Lindy Nelson, U.S. DOI  
Yolanda Bouchee-Cureton, U.S. EPA  
Ann Whelan, U.S. EPA

brennan pierce, Weston  
kris vezner, EPA/ORC  
Joseph Ruiz, Weston  
Janet Pope, EPA  
jennifer hesse, Chicago Public Health  
kimberly worthington, Chicago Fleet/Facility Management

**From:** Bradley Benning, OSC  
**Date:** 11/4/2013  
**Reporting Period:** 10/29/2013 to 11/4/2013

## **1. Introduction**

### **1.1 Background**

<b>Site Number:</b>	B5FM	<b>Contract Number:</b>	EP-S5-08-04
<b>D.O. Number:</b>	054	<b>Action Memo Date:</b>	9/27/2013
<b>Response Authority:</b>	CERCLA	<b>Response Type:</b>	Time-Critical
<b>Response Lead:</b>	EPA	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	10/7/2013	<b>Start Date:</b>	10/7/2013
<b>Demob Date:</b>		<b>Completion Date:</b>	
<b>CERCLIS ID:</b>	ILN000509228	<b>RCRIS ID:</b>	ILD980503213
<b>ERNS No.:</b>		<b>State Notification:</b>	
<b>FPN#:</b>		<b>Reimbursable Account #:</b>	

#### **1.1.1 Incident**

Time-Critical Removal Action

#### **1.1.2 Site Description**

The subject property is situated in an urban/industrial setting within the City of Chicago. Bordering the property on the north is 119th Street (unpaved and currently not in use as a street), beyond which is an open mowed grass field that is part of the Sherwin-Williams Paint Co. property; on the east is bare, filled, open property that is a portion of a storage tank container company, beyond which is I-94; on the south is bare, filled, open property that is another portion of the storage tank container company, and to the west is S. Champlain Ave (unpaved and currently not used as a street), beyond which are railroad siding tracks and an unknown manufacturing company. Information obtained from the Cook County Assessor Office indicates that the facility's former structure, driveway and parking areas occupy a rectangular shaped property on approximately 5.7 acres of land. According to a 1936 – 1950 Sanborn Fire Insurance Map, the former facility consisted of a two story main building with two one story rooms attached to the south and a one level storage room attached to the west. What appears to be a separate, small smelting building containing a vat was located south and adjacent to the storage room. At some point between the late 1950's to late 1960's, Calumet Lead ceased doing business. Based on United States Geological Survey (USGS) aerial photography from 1998 and 2002 and observations of IEPA personnel during the August 10, 2004 PCS Assessment, and April 25, 2006 site reconnaissance portion of the PA, all that remains of the former structures is a portion of a smoke stack. All other structures have been razed.

##### **1.1.2.1 Location**



The Calumet Lead site is an inactive, abandoned metal producing operation located at 11901 S. Champlain Ave., Chicago, Illinois, Township 37 North, Range 14 East, Section 22, Latitude 41 678, Longitude -87.606, in Hyde Park Township, Cook County. The Site was located at the southern end of the City of Chicago, approximately 3000 feet south of E. 115th Street. Interstate 94 is visible approximately 1500 feet east of the facility

#### **1.1.2.2 Description of Threat**

Lead, arsenic, and cadmium were detected above Removal Management Levels (RMLs), and are identified as hazardous substances as defined by Section 101(14) of CERCLA. While the Site is fenced, gaps exist at multiple locations, allowing potential direct contact with the contaminated soils at the Site and tracking contamination off-site exposing nearby human populations.

#### **1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results**

Through field based soil and debris evaluation, with the IEPA's XRF unit, soil contamination was detected not only on the floor of the former building, but also detected at various locations away from the former structures, throughout the property (lead ranged between 7480 mg/kg – 768,000 mg/kg, zinc 5110 mg/kg – 146,000 mg/kg, and arsenic less than limit of detection – 36,300 mg/kg. All locations analyzed contained one or more constituents, related to lead and zinc smelting, with concentrations well above U.S. EPA RML's. No confirmatory soil samples were collected during the August 10, 2004 site visit. However, to confirm these preliminary observations, soil samples were collected, as part of this April 2008 SI, throughout the property. Most were collected near those locations screened with the XRF during the August 10, 2004 site visit. Laboratory analytical results of the soil samples indicate numerous compounds and analytes significantly exceeding corresponding background levels and/or SCDM benchmarks throughout the property. Lead exceeds the site soil background levels in nineteen of the soil samples. Surface level total lead samples ranged from 521 mg/kg (background) to 54,000 mg/kg. Sediment samples for total lead along the north perimeter ranged from 469 mg/kg to 15,000 mg/kg. In addition, TCLP regulatory levels for lead were exceeded in all nine samples analyzed with the TCLP method. TCLP levels ranged from 11 mg/kg to 1700 mg/kg. Cadmium levels were exceeded in three samples ranging from 1.8 mg/kg to 7.3 mg/kg. The total approximate area of soil contamination is calculated to be 5.7 acres (248,292 square feet).

## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

The overall goal of this removal action is to prevent direct contact and off-site migration of contaminated soils from the LCS Site. This goal will be accomplished by removing highly contaminated surface soils and backfilling with clean earthen materials to provide a protective cover to prevent direct contact and migration of residual contaminated soils from the LCS Site.

#### **2.1.2 Response Actions to Date**

10/29/2013 - Continue prep work: clearing/grinding brush, consolidating/loading out debris, 2 additional operators mobilized to site to assist with landscape/debris removal work, permit approved for city water connection.

10/30/2013 - Continue prep work: brush cutting/grinding, consolidating/loading out debris, off-road dump truck mobed to site

10/31/2013 - Continue prep work: continue clearing/grinding; continue loading out debris, generator switched out by CMC; laborers not onsite due to rain and wet site conditions

11/01/2013 - Continue prep work continue clearing/grinding, continue debris load out, clearing slag piles from west perimeter by railroad tracks, PR issued for personnel air monitoring to measure potential lead exposure; DataRams onsite, will be set up tomorrow.

11/04/2013 - Continue loading out C&D debris; grinding brush; treatment chemical arrived onsite (21 sacks); DataRams positioned at the NW site entrance, N perimeter and E perimeter; repairing low areas on the site access road; two soil stockpiles are available treatment, which will likely start this week.

### **2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)**

No PRPs were identified for this site, a Federal Warrant for Access was secured on September 12, 2013.

### **2.1.4 Progress Metrics**

<b>Waste Stream</b>	<b>Medium</b>	<b>Quantity</b>	<b>Manifest #</b>	<b>Treatment</b>	<b>Disposal</b>
C&D Waste	solid	965yds	NA		Advanced Disposal, IN

## **2.2 Planning Section**

### **2.2.1 Anticipated Activities**

Continue site activities: additional heavy equipment and crew were mobilized, continue site clearing and C&D disposal, continue stripping top layer of soil and stockpile for treatment, begin soil treatment and disposal.

#### **2.2.1.1 Planned Response Activities**

- Remove site debris and clear overgrown landscape material
- Excavate surface soils with XRF screening to concentrate removal in areas with the highest contaminant levels.
- Treatment of soils with Enviroblend FG
- Off-site disposal of treated soils.
- Backfill areas with clean earthen material to provide protective cover.

#### **2.2.1.2 Next Steps**

- Finish debris removal and site clearing.
- Continue excavation of soils and treatment for disposal.

### **2.2.2 Issues**

Upon completion of the removal action a Deed Restriction will likely be place on the property as contamination beyond two feet will be present and limit future use of the property.

## **2.3 Logistics Section**

Managed by the ERRS FCA

## **2.4 Finance Section**

### **2.4.1 Narrative**

Managed by ERRS FCA/RM and OSC.

### **Estimated Costs \***

	<b>Budgeted</b>	<b>Total To Date</b>	<b>Remaining</b>	<b>% Remaining</b>
<b>Extramural Costs</b>				
ERRS - Cleanup Contractor	\$1,200,000.00	\$294,974.00	\$905,026.00	75.42%
TAT/START	\$25,000.00	\$10,500.00	\$14,500.00	58.00%
<b>Intramural Costs</b>				
<b>Total Site Costs</b>	<b>\$1,225,000.00</b>	<b>\$305,474.00</b>	<b>\$919,526.00</b>	<b>75.06%</b>

\* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

## **2.5 Other Command Staff**

### **2.5.1 Safety Officer**

Federal OSC

### **2.5.2 Liaison Officer**

Not required

### **2.5.3 Information Officer**

Janet Pope/USEPA is the CIC for this site. CIC is developing a fact sheet for the site.

## **3. Participating Entities**

### **3.1 Unified Command**

USEPA Fund Lead

### **3.2 Cooperating Agencies**

City of Chicago

Illinois EPA

**4. Personnel On Site**

EPA - 1  
START - 1  
ERRS - 10

**5. Definition of Terms**

RML - Removal Management Level  
ERRS - Emergency Removal and Response Services  
START - Superfund Technical Assessment and Response Team  
XRF - X-Ray Fluorescence  
ATSDR - Agency for Toxic Substances and Disease Registry  
PPM - Parts per million  
LCS - Lake Calumet Smelter  
OSC - On-scene Coordinator  
EPA - Environmental Protection Agency  
CO - Contract Officer  
PR - Procurement Request

**6. Additional sources of Information**

**6.1 Internet location of additional information/**

Website. [www.epaosc.org/lakecalumetsmelter](http://www.epaosc.org/lakecalumetsmelter)

**6.2 Reporting Schedule**

Weekly Sitreps anticipated

**7. Situational Reference Materials**

Repository for documents will be established at a nearby facility  
Visit website. [www.epaosc.org/lakecalumetsmelter](http://www.epaosc.org/lakecalumetsmelter)

## **Reference 6**

US EPA RECORDS CENTER REGION 5



457034

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Lake Calumet Smelter - Removal Polrep  
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V

**Subject:** POLREP #8  
Final Polrep  
Lake Calumet Smelter  
B5FM  
Chicago, IL  
Latitude: 41.6776690 Longitude: -87.6057530

**To:** Bradley Benning, ERB  
Mark Johnson, ATSDR  
Valencia Darby, Department of Interior  
Bruce Everetts, Illinois EPA  
Sam Borries, U.S. EPA  
Mark Durno, U.S. EPA  
Jason El-Zein, U.S. EPA  
Sherry Fielding, U.S. EPA  
Charlie Gebien, U.S. EPA  
John Glover, U.S. EPA  
John Maritote, U.S. EPA  
Thomas Marks, U.S. EPA  
Mike Ribordy, U.S. EPA  
Carol Ropski, U.S. EPA  
USCG PolRep Distribution, USCG  
debbie Keating, EESS  
Lindy Nelson, U.S. DOI  
Yolanda Bouchee-Cureton, U.S. EPA

Ann Whelan, U.S. EPA  
brennan pierce, Weston  
kris vezner, EPA/ORC  
Joseph Ruiz, Weston  
Janet Pope, EPA  
jennifer hesse, Chicago Public Health  
kimberly worthington, Chicago Fleet/Facility Management

**From:** Bradley Benning, OSC  
**Date:** 1/27/2014  
**Reporting Period:** 12/10/2013 to 12/20/2013

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	B5FM	<b>Contract Number:</b>	EP-S5-08-04
<b>D.O. Number:</b>	054	<b>Action Memo Date:</b>	9/27/2013
<b>Response Authority:</b>	CERCLA	<b>Response Type:</b>	Time-Critical
<b>Response Lead:</b>	EPA	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	10/7/2013	<b>Start Date:</b>	10/7/2013
<b>Demob Date:</b>	12/20/2013	<b>Completion Date:</b>	12/20/2013
<b>CERCLIS ID:</b>	ILN000509228	<b>RCRIS ID:</b>	ILD980503213
<b>ERNS No.:</b>		<b>State Notification:</b>	
<b>FPN#:</b>		<b>Reimbursable Account #:</b>	

#### 1.1.1 Incident

Time-Critical Removal Action

#### 1.1.2 Site Description

The subject property is situated in an urban/industrial setting within the City of Chicago. Bordenng the property north is 119th Street (unpaved and currently not in use as a street), beyond which is an open mowed grass field which is part of the Sherwin-Williams Paint Co. property; on the east is bare, filled, open property that is a portion of a storage tank container company, beyond which is I-94; on the south is bare, filled, open property that is another portion of the storage tank container company, and to the west is S. Champlain Ave. (unpaved and currently not in use as a street), beyond which are railroad siding tracks and an unknown manufacturing company. Information obtained from the Cook County Assessor Office indicates that the facility's former structure, driveway and parking area: a rectangular shaped property on approximately 5.7 acres of land. According to a 1936 - 1950 Sanborn Fire Insurance Map, the former facility consisted of a two story main building with two one story rooms attached to the south and a one level storage room attached to the west. What appears to be a separate, small smelting building containing a vat was located south and adjacent to the storage room. At some point between the late 1950's to the early 1960's, Calumet Lead ceased doing business. Based on United States Geological Survey (USGS) aerial photographs from 1998 and 2002 and observations of IEPA personnel during the August 10, 2004 PCS Assessment, and a 2006 site reconnaissance portion of the PA, all that remains of the former structures is a portion of a smokestack. All other structures have been razed.

##### 1.1.2.1 Location

The Calumet Lead site is an inactive, abandoned metal producing operation located at 11901 S. Champlain Ave., Chicago, Illinois, Township 37 North, Range 14 East, Section 22, Latitude 41.678, Longitude -87.606, in H

Township, Cook County . The Site was located at the southern end of the City of Chicago, approximately 3000 south of E. 115th Street. Interstate 94 is visible approximately 1500 feet east of the facility

#### **1.1.2.2 Description of Threat**

Lead, arsenic, and cadmium were detected above Removal Management Levels (RMLs), and are identified as hazardous substances as defined by Section 101(14) of CERCLA. While the Site is fenced, gaps exist at multiple locations, allowing potential direct contact with the contaminated soils at the Site and tracking contamination exposing nearby human populations

#### **1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results**

Through field based soil and debris evaluation, with the IEPA's XRF unit, soil contamination was detected not only on the floor of the former building, but also detected at various locations away from the former structures, throughout the property (lead ranged between 7480 mg/kg – 768,000mg/kg, zinc 5110 mg/kg – 146,000 mg/kg, and arsenic limit of detection – 36,300 mg/kg. All locations analyzed contained one or more constituents, related to lead and arsenic smelting, with concentrations well above U.S. EPA RML's. No confirmatory soil samples were collected during August 10, 2004 site visit. However, to confirm these preliminary observations, soil samples were collected, as part of this April 2008 SI, throughout the property. Most were collected near those locations screened with the XRF during the August 10, 2004 site visit. Laboratory analytical results of the soil samples indicate numerous compounds and analytes significantly exceeding corresponding background levels and/or SCDM benchmarks throughout the property. Lead exceeds the site soil background levels in nineteen of the soil samples. Surface level total lead samples range from 521 mg/kg (background) to 54,000 mg/kg. Sediment samples for total lead along the north perimeter range from 469 mg/kg to 15,000 mg/kg. In addition, TCLP regulatory levels for lead were exceeded in all nine samples analyzed with the TCLP method. TCLP levels ranged from 11 mg/kg to 1700 mg/kg. Cadmium levels were exceeded in three samples ranging from 1.8 mg/kg to 7.3 mg/kg. The total approximate area of soil contamination is calculated to be 5.7 acres (248,292 square feet)

## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

The overall goal of this removal action is to prevent direct contact and off-site migration of contaminated soils from the LCS Site. This goal will be accomplished by removing highly contaminated surface soils and backfilling with clean earthen materials to provide a protective cover to prevent direct contact and migration of residual contamination from the LCS Site.

#### **2.1.2 Response Actions to Date**

12/10/2013 - Continue work: Cover operations ongoing; delivery of gravel backfill for top layer; no exceedences on DataRams.

12/11/2013 - Continue work: delivery of backfill; continue covering over areas that are at final grade; no exceedences on DataRams.

12/12/2013 - Continue work: delivery of backfill; continue cover operations; no exceedences on DataRams.

12/13/2013 - Continue work: backfill delivery; continue cover operations; no exceedences on DataRams.

12/14/2013 - Continue work: continue backfill delivery; continue cover operations, no exceedences on DataRams.



12/16/2013 - Continue work. continue backfill delivery; continue cover operations; remove gravel layer from access road at the request of property owner due to possible contamination; START contractor demobed

12/17/2013 - Continue work continue backfill delivery, continue cover operations; lay down new gravel on site road.

12/18/2013 - Continue work: continue backfill delivery, continue cover operations, site trailers demobed.

12/19/2013 - Continue work, finish cover operations; no new fencing was installed as the property is already i by adjacent property fences and the railroad right-of-way, sewer manholes onsite were marked with orange hi cones.

12/20/2013 - All remaining site personnel and equipment were demobed, access gates were locked.

### 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

No PRPs were identified for this site, a Federal Warrant for Access was secured on September 12, 2013.

### 2.1.4 Progress Metrics

<b>Waste Stream</b>	<b>Medium</b>	<b>Quantity</b>	<b>Manifest #</b>	<b>Treatment</b>	<b>Disposal</b>
C&D Waste	solid	1,441 tons	NA		Advanced Disposal, IN
Treated non-haz soil	solid	2,202 tons	On file		Hoosier Landfill, IN
Tires	solid	30 tons	NA	recycled	Ozinga materials

#### R5 Priorities Summary

This is an Integrated River Assessment The numbers should overlap.	Miles of river systems cleaned and/or restored	NA
	Cubic yards of contaminated sediments removed and/or capped	NA
	Gallons of oil/water recovered	NA
	Acres of soil/sediment cleaned up in floodplains and riverbanks	NA
Stand Alone Assessment	Acres Protected	5.7
	Number of contaminated residential yards cleaned up	0
	Human Health Exposures Avoided	500
	Number of workers on site	0
Contaminant(s) of Concern		
Contaminant(s) of Concern	Lead, cadmium, arsenic	

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

Complete final cost accounting activities.

#### 2.2.1.1 Planned Response Activities

No additional response activities are planned for this Site

#### 2.2.1.2 Next Steps

Assist with with any future reuse of the property, work with ORC to place a Deed Restriction on the property to future excavation on the Site, notify Federal Judge that the Access Warrant can be terminated

### 2.2.2 Issues

Upon completion of the removal action a Deed Restriction will likely be place on the property as contaminant be present and limit future use of the property. Adjacent property owner is investigating the possibility of purc the property to allow storage expansion for their current tennant

## 2.3 Logistics Section

Managed by the ERRS FCA

## 2.4 Finance Section

### 2.4.1 Narrative

Managed by ERRS FCA/RM and OSC.

12/10.2013 - Task Order Mod. for \$300,000.00 increase to \$1.5 million

### Estimated Costs \*

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
ERRS - Cleanup Contractor	\$1,500,000.00	\$1,232,477.42	\$267,522.58	17.83%
TAT/START	\$32,000.00	\$30,000.00	\$2,000.00	6.25%
<b>Intramural Costs</b>				
<b>Total Site Costs</b>	<b>\$1,532,000.00</b>	<b>\$1,262,477.42</b>	<b>\$269,522.58</b>	<b>17.59%</b>

\* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). The financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

## **2.5 Other Command Staff**

### **2.5.1 Safety Officer**

Federal OSC

### **2.5.2 Liaison Officer**

Not required

### **2.5.3 Information Officer**

Janet Pope/USEPA is the CIC for this site. CIC developed a fact sheet for the site

## **3. Participating Entities**

### **3.1 Unified Command**

USEPA Fund Lead

### **3.2 Cooperating Agencies**

City of Chicago  
Illinois EPA

## **4. Personnel On Site**

EPA - 1  
START - 1  
ERRS - 8

## **5. Definition of Terms**

RML - Removal Management Level  
ERRS - Emergency Removal and Response Services  
START - Superfund Technical Assessment and Response Team  
XRF - X-Ray Fluorescence  
ATSDR - Agency for Toxic Substances and Disease Registry  
PPM - Parts per million  
LCS - Lake Calumet Smelter  
OSC - On-scene Coordinator  
EPA - Environmental Protection Agency  
CO - Contract Officer  
PR - Procurement Request

## **6. Additional sources of information**

### **6.1 Internet location of additional information/**

Website: [www.epaosc.org/lakecalumetsmelter](http://www.epaosc.org/lakecalumetsmelter)

### **6.2 Reporting Schedule**

No additional Polreps are anticipated

## **7. Situational Reference Materials**

Repository for documents will be established at a nearby facility.  
Visit website: [www.epaosc.org/lakecalumetsmelter](http://www.epaosc.org/lakecalumetsmelter)

## **Reference 7**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

NOV 18 2016

MEMORANDUM

Subject: Superfund Site No. B5FM  
Lake Calumet Smelting Site, IL  
Itemized Cost Summary Request

From: Darius L. Taylor, Financial Specialist  
Cost Recovery Team  
Program Accounting & Analysis Section

Through: Richard D. Hackley, Section Chief  
Program Accounting & Analysis Section

To: Debbie Keating, Environmental Protection Specialist  
SFD, ECAB, ENFORCEMENT SERVICES SECTION 1

The attached Itemized Cost Summary outlines all of the cumulative cost expenditures in the Integrated Financial Management/Compass Systems for Lake Calumet Smelting Site, IL. These costs run through October 31, 2016.

This report lists all the payroll, travel, shipping, purchases, state assistance agreements, Interagency Agreements and contractor costs related to this site. We have also computed and included for your information Region V's indirect costs for this site. Based on adjustments recommended by the Office of Inspector General's Superfund audit for Fiscal Years 1983 through 1986, final indirect costs rates were computed as a dollar rate per hour (see accompanying table for rates for FY's 1983 through 1989). Indirect cost rates for these years were conservative and did not result in allocating all indirect costs to sites.

Therefore, starting in FY 1990 a new full cost indirect rate methodology was developed and applied to Superfund site costs. This essentially means that the new indirect cost rates are expressed as a percentage of total direct site costs as opposed to a dollar rate per hour (as was true under the old methodology). The resulting indirect cost rates for FY 1990 through 2015 are based on actual costs for those fiscal years (see accompanying table for rates for FY's 1990 through 2015).

The indirect cost rate for FY 2016 and 2017 will be 61.96% and is based on FY 2015 costs. This rate is provisional for these two years and will be updated upon subsequent indirect cost calculations.

If you have any questions or require any additional assistance, please contact Darius Taylor at 1-312-353-3241.

Attachments

**INDIRECT COST RATES FOR FY 1983 THROUGH 1989 (OLD METHODOLOGY)**

<b>FY 1983</b>	<b>FY 1984</b>	<b>FY 1985</b>	<b>FY 1986</b>	<b>FY 1987</b>	<b>FY 1988</b>	<b>FY 1989</b>
<b>\$71.00</b>	<b>\$61.00</b>	<b>\$53.00</b>	<b>\$51.00</b>	<b>\$53.00</b>	<b>\$64.00</b>	<b>\$64.00</b>

**INDIRECT COST RATES FOR FY 1990 THROUGH 2016 (NEW METHODOLOGY)**

<b>FISCAL YEAR</b>	<b>INDIRECT COST RATE</b>
<b>1990</b>	<b>31.03%</b>
<b>1991</b>	<b>27.61%</b>
<b>1992</b>	<b>29.75%</b>
<b>1993</b>	<b>33.32%</b>
<b>1994</b>	<b>35.87%</b>
<b>1995</b>	<b>26.84%</b>
<b>1996</b>	<b>32.57%</b>
<b>1997</b>	<b>39.72%</b>
<b>1998</b>	<b>38.85%</b>
<b>1999</b>	<b>39.21%</b>
<b>2000</b>	<b>38.26%</b>
<b>2001</b>	<b>42.38%</b>
<b>2002</b>	<b>52.45%</b>
<b>2003</b>	<b>55.15%</b>
<b>2004</b>	<b>52.57%</b>
<b>2005</b>	<b>61.71%</b>
<b>2006</b>	<b>56.23%</b>
<b>2007</b>	<b>62.91%</b>
<b>2008</b>	<b>61.66%</b>
<b>2009</b>	<b>62.76%</b>
<b>2010</b>	<b>49.25%</b>
<b>2011</b>	<b>61.61%</b>
<b>2012</b>	<b>56.41%</b>
<b>2013</b>	<b>57.47%</b>
<b>2014</b>	<b>77.22%</b>
<b>2015</b>	<b>61.96%</b>
<b>2016*</b>	<b>61.96%</b>
<b>2017*</b>	<b>61.96%</b>

\* Indirect cost rates for these years are provisional

## Itemized Cost Summary

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<b>REGIONAL PAYROLL COSTS .....</b>	<b>\$104,973.09</b>
<b>ENFORCEMENT SUPPORT SERVICES (ESS) CONTRACT</b>	
BOOZ ALLEN & HAMILTON (EPW11016) . . . . .	\$21 09
<b>ENVIRONMENTAL RAPID RESPONSE SERVICES (ERRS)</b>	
LATA-KEMRON REMEDIATION, LLC (EPS50804) . . . . .	\$1,244,245 72
<b>ENVIRONMENTAL SERVICES ASSISTANCE TEAMS (ESAT)</b>	
TECHLAW, INC. (EPW06031) .... .	\$12,264.20
<b>SUPERFUND TECH. ASSISTANCE &amp; RESPONSE TEAM (START)</b>	
WESTON SOLUTIONS, INC (EPS50604) ..... .	\$45,703 07
<b>TECHNICAL AND ANALYTICAL SUPPORT CONTRACT (TAS)</b>	
TOEROEK ASSOCIATES, INC. (EPS51401) .. . . .	\$658 47
<b>TECHNICAL SERVICE AND SUPPORT</b>	
COMPUTER SCIENCES CORPORATION (EPW06046) . . . . .	\$4,477 98
PRIMUS SOLUTIONS, INC (EPW11024) .... .	\$258 70
<b>CONTRACT LAB PROGRAM (CLP) COSTS</b>	
FINANCIAL COST SUMMARY . . . . .	\$30,785.29
<b>EPA INDIRECT COSTS .....</b>	<b>\$1,089,364.08</b>
<b>Total Site Costs:</b>	<b>\$2,532,751.69</b>



## Regional Payroll Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Hours</u>	<u>Payroll Costs</u>
AULTZ, ERICA	2007	03	0 25	6.38
Environmental Engineer	2009	15	2 00	76 38
		18	4 00	152 77
		19	8.50	324 64
		21	2 00	78 81
	2010	04	1 00	45.48
		26	13 75	664.74
	2013	24	1 00	49.34
			32 50	\$1,398 54
BENNING, BRADLEY	2012	10	5 00	391 89
ENVIRONMENTAL SCIENTIST		11	4 00	319 18
		15	12 00	957 50
		16	15 00	1,170.94
		18	14 00	1,078 92
		19	15 00	1,196 86
		20	13.00	1,037 27
		21	7.00	558.53
		22	7 00	558.53
		23	16 00	1,287.36
		24	22 00	1,755.39
		25	17 00	1,332.40
		26	40 00	3,191.63
		27	11 00	877 70
	2013	01	13 00	1,037 27
		02	13.00	1,037.27
		03	13 00	1,037.27
		04	18 00	1,379.71
		05	23 00	1,753 42
		06	16.00	1,219.77
		07	6 00	478.75
		08	14 00	1,117 45
		09	14 00	1,118.37
		10	11 00	878.72
		11	26 00	2,076.97
		12	7 00	520.38
		13	15 00	1,198.26
		14	14.00	1,118 37

## Regional Payroll Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Hours</u>	<u>Payroll Costs</u>
BENNING, BRADLEY	2013	15	21 00	1,677.54
		16	23 00	1,837.32
		17	19 00	1,489.82
		18	14 00	1,077.15
		19	13 00	1,019.35
		21	13.00	995.31
		22	8 00	639.07
		23	12 00	947.56
		24	16 00	1,191.60
		25	36 00	2,875.81
		26	16 00	1,278.14
		27	16 00	1,278.14
	2014	01	10.00	798.83
		02	64.00	5,112.55
		03	80 00	6,390.68
		04	66 00	5,272.31
		05	11 00	871.80
		06	80 00	6,106.11
		07	32 00	2,556.03
		08	12 00	958.52
		09	10 00	808.01
		10	17.00	1,373.63
		12	4.00	323.20
		14	4.00	323.20
		15	4.00	323.20
		16	5.00	404.01
		17	4 00	323.20
			<u>1,011.00</u>	<u>\$79,938.17</u>
BENSING, MILAGROS	2016	16	0.25	13.84
ENVIRONMENTAL PROTECTION SPECIALIST		22	0.25	13.84
			<u>0.50</u>	<u>\$27.68</u>
BESLOW, MICHAEL	2014	04	7.50	480.08
Environmental Scientist			<u>7.50</u>	<u>\$480.08</u>
BORRIES, SAMUEL	2012	26	5.50	455.83

## Regional Payroll Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Hours</u>	<u>Payroll Costs</u>
ENVIRONMENTAL SCIENTIST			5 50	\$455 83
BYVIK, RICHARD	2008	19	2.00	120 43
CHEMIST		20	1 00	60 20
		21	1.00	60.21
			4 00	\$240 84
HOLZ, THERESA	2014	05	33.50	2,111 99
Environmental Scientist			33 50	\$2,111 99
KAWECKI, JOSEPH	2012	11	16.00	1,193 42
CIVIL INVESTIGATOR		22	4 00	298 34
			20.00	\$1,491 76
KEATING, DEBRA	2012	08	2 00	109.52
FRIPT, DEBBIE		09	2 00	128 76
REGEL, DEBBIE		10	5 00	321 89
ENVIRONMENTAL PROTECTION SPECIALIST		11	3 50	225 33
		12	0.50	32 18
		14	0.50	32 18
		16	0 50	32.18
		17	4 00	257 52
		19	4 00	257.52
		20	7.50	482 84
		22	19 00	1,223.20
		23	0 50	32.78
		24	3 00	193 14
		25	3 50	225 32
		26	11 00	708.15
		27	1 50	98.06
	2013	01	12 00	764.18
		02	0.50	32.18
		04	1 50	96 56
		05	0.50	32.18
		12	1.00	64.47
		13	0 50	32.24
		21	0.25	15.91

## Regional Payroll Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Hours</u>	<u>Payroll Costs</u>
KEATING, DEBRA	2013	26	0 50	31 96
		27	0.50	33.12
	2014	10	1 50	100.33
		15	0 50	33 44
	2015	25	0 50	33 82
	2016	09	1 00	68.95
		15	3.00	206.85
		16	0.50	34 48
		17	1 00	68.95
		20	1 00	68 95
		24	1 50	103 43
		25	1 00	68 94
		02	4 00	282 60
			<u>100 75</u>	<u>\$6,534 11</u>
TE, LAWRENCE SUPERVISORY GENERAL ATTORNEY	2012	24	0 50	43.02
	2013	03	1 50	129 04
		04	1.25	107.55
		05	2 50	215 08
		06	0 50	43 01
		07	1 00	86 06
		08	0.75	64.52
		09	0.25	21 55
		10	0.25	21 55
		11	0.25	21 55
		15	0.25	21.55
		18	0.50	42.78
		19	0.25	21.23
		20	0.25	21 55
		21	0.25	21.39
		22	0.25	21 55
		23	1 00	86.15
		25	0 50	43.10
		27	0.50	43 10
	2016	09	0.25	22.27
			<u>12.75</u>	<u>\$1,097 60</u>
MARKS, THOMAS	2012	11	0.25	19.21

## Regional Payroll Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Hours</u>	<u>Payroll Costs</u>
SUPV ENVIRONMENTAL PROTECTION SPEC	2013	14	0.25	19 25
	2015	11	0.25	19 68
			<u>0 75</u>	<u>\$58 14</u>
MCGARY, DARLENE	2012	27	0.50	33.91
CONTRACT SPECIALIST	2013	16	0 25	17 00
		26	0 25	17 00
			<u>1 00</u>	<u>\$67.91</u>
NELSON, THOMAS SUPERVISORY GENERAL ATTORNEY	2013	10	0 25	23 78
		22	0.25	23 78
		23	0 50	47 53
		24	0.25	23 78
		26	0.50	47 53
	2014	18	0.25	24.03
			<u>2 00</u>	<u>\$190.43</u>
PETERSON, STEVEN ENVIRONMENTAL SCIENTIST	2008	17	0 50	29.61
		18	0 50	29 61
		19	0.50	29 61
			<u>1 50</u>	<u>\$88.83</u>
PHAM, HOWARD ENVIRONMENTAL SCIENTIST	2008	19	5.00	303.88
			<u>5.00</u>	<u>\$303 88</u>
RIBORDY, MICHAEL GEOLOGIST	2011	02	3 00	210 93
	2014	06	4 00	315 30
			<u>7 00</u>	<u>\$526.23</u>
RIPLEY, LAURA ENVIRONMENTAL SCIENTIST	2007	03	6 25	388 82
		13	0 25	15 90
	2008	11	1 50	95 45
		13	1.50	95 47
		15	2 50	159.12
			<u>12.00</u>	<u>\$754 76</u>
SAMUEL, JANET	2013	12	0.25	14 32

## Regional Payroll Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Hours</u>	<u>Payroll Costs</u>
ENVIRONMENTAL PROTECTION ASSISTANT			0 25	\$14 32
SHORT, THOMAS ENVIRONMENTAL ENGINEER	2009	01	7 50	605.53
			7.50	\$605.53
TANAKA, JOAN ENVIRONMENTAL ENGINEER	2013	02	2.00	173 11
		04	3.00	256.10
		06	1 00	85 37
			6 00	\$514.58
TAYLOR, DARIUS FINANCIAL SPECIALIST	2016	15	6 00	383 84
			6 00	\$383 84
ZNER, KRIS GENERAL ATTORNEY	2012	17	6 50	522 56
		19	1.25	100 48
		20	0 75	60.29
		22	3 75	301 47
		23	0.25	20.09
		24	0.50	40.20
		25	2.00	160.78
		26	3 25	261.27
	2013	02	2 25	180.86
		03	1.75	140 68
		04	1.00	77 68
		05	22.50	1,726 30
		06	4.00	306.89
		07	1 50	111.72
		08	0.75	60.30
		09	1 50	120.81
		11	2 00	161 06
		12	1.00	80 53
		13	3.75	302.00
		15	2 00	161 06
		16	1 25	100.66
		18	3 75	287 53
		19	0 25	20.13

## Regional Payroll Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Hours</u>	<u>Payroll Costs</u>
VEZNER, KRIS	2013	20	5.50	436 73
		21	2 00	158 48
		22	2 00	161.06
		23	4 00	322 13
		24	5 00	402 68
		25	5 00	402 68
		26	1 75	140 94
		27	1 25	100.67
	2014	03	0.25	20.13
		04	0 50	40.26
		05	0.25	19.76
		07	0 25	20 14
	2016	26	0 75	67 30
	2017	02	1 00	89 73
			97 00	\$7,688.04
Total Regional Payroll Costs			1,374 00	\$104,973 09

Headquarters Payroll Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Hours</u>	<u>Payroll Costs</u>
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Regional Travel Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Traveler/Vendor Name</u>	<u>Travel Number</u>	<u>Treasury Schedule</u>	<u>Treasury Schedule Date</u>	<u>Travel Costs</u>
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## Headquarters Travel Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Traveler/Vendor Name</u>	<u>Travel Number</u>	<u>Treasury Schedule</u>	<u>Treasury Schedule Date</u>	<u>Travel Costs</u>
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## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

ENFORCEMENT SUPPORT SERVICES (ESS) CONTRACT

Contractor Name BOOZ ALLEN & HAMILTON  
EPA Contract Number EPW11016  
Delivery Order Information DO # Start Date End Date  
6 11/01/2014 11/30/2014  
Project Officer(s) SCHMITT, LAWRENCE  
Dates of Service From 11/01/2014 To 11/30/2014  
Summary of Service ANALYTICAL SUPPORT SERVICES  
Total Costs \$21.09

<u>Voucher Number</u>	<u>Voucher Date</u>	<u>Voucher Amount</u>	<u>Treasury Schedule Number and Date</u>	<u>Site Amount</u>
30-803405	12/05/2014	26,116 61	AVC150070 01/08/2015	21 09
			Total:	<u>\$21 09</u>

## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

ENVIRONMENTAL RAPID RESPONSE SERVICES (ERRS)

Contractor Name. LATA-KEMRON REMEDIATION, LLC -

EPA Contract Number EPS50804

Delivery Order Information DO # Start Date End Date  
 54 09/27/2012 05/30/2014

Project Officer(s) BENNING, BRADLEY  
 MCGARY, DARLENE

Dates of Service From: 09/27/2012 To 05/30/2014

Summary of Service EMERGENCY RESPONSE CONTRACTS-SUB(OSCM)

Total Costs \$1,244,245.72

<u>Voucher Number</u>	<u>Voucher Date</u>	<u>Voucher Amount</u>	<u>Treasury Schedule Number and Date</u>	<u>Site Amount</u>
TO0054-001	03/27/2013	9,626.32	AVC130154 04/10/2013	9,626.32
TO0054-002	04/25/2013	5,633.79	AVC130175 05/09/2013	5,633.79
TO0054-003	11/26/2013	124,426.77	AVC140058 12/24/2013	124,426.77
TO0054-003S	01/31/2014	3,019.38	AVC140092 02/13/2014	3,019.38
TO0054-004	01/30/2014	784,377.07	AVC140092 02/13/2014	784,377.07
TO0054-003R	03/01/2014	436.35	AVC140119 03/24/2014	436.35
TO0054-005	03/01/2014	294,365.21	AVC140119 03/24/2014	294,365.21
TO0054-004R	05/02/2014	9,477.55	AVC140158 05/16/2014	9,477.55
TO0054-006	05/02/2014	11,682.34	AVC140158 05/16/2014	11,682.34
TO0054-004S	03/01/2014	905.51	AVC140311 09/09/2014	905.51
TO0054-007	11/17/2014	295.43	AVC150051 12/11/2014	295.43
Total:				<u>\$1,244,245.72</u>

## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016ENVIRONMENTAL SERVICES ASSISTANCE TEAMS (ESAT)

Contractor Name TECHLAW, INC

EPA Contract Number EPW06031

Delivery Order Information	DO #	Start Date	End Date
	15	04/26/2008	07/25/2008
	16	05/31/2008	07/25/2008

Project Officer(s) PETERSON, STEVEN

Dates of Service From: 04/26/2008 To: 07/25/2008

Summary of Service ENVIRON SERVICES ASSIST TEAMS(SUB-REDI)

Total Costs \$12,264.20

Voucher Number	Voucher Date	Voucher Amount	Treasury Schedule Number and Date	Site Amount	Annual Allocation
3037.15-27	06/07/2008	17,899.80	R8E45 07/08/2008	1,454.26	1,459.49
3037.15-28	07/07/2008	13,765.90	R8F16 08/04/2008	485 98	487.73
3037.16-28	07/07/2008	27,794.36	R8F16 08/04/2008	3,187 30	3,198.77
3037 15-29	08/07/2008	12,642.69	R8F93 09/04/2008	222 92	223 72
3037 16-29	08/07/2008	23,218 85	R8F93 09/04/2008	770 63	773 40
Total.				\$6,121 09	\$6,143 11

## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016ENVIRONMENTAL SERVICES ASSISTANCE TEAMS (ESAT)

Contractor Name            TECHLAW, INC  
EPA Contract Number.      EPW06031  
Delivery Order Information   DO #      Start Date      End Date  
   15            04/26/2008      07/25/2008  
   16            05/31/2008      07/25/2008  
  
Project Officer(s):          PETERSON, STEVEN  
Dates of Service:            From 04/26/2008      To: 07/25/2008  
Summary of Service          ENVIRON SERVICES ASSIST TEAMS(SUB-REDI)  
Total Costs                    \$12,264 20

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<u>Voucher Number</u>	<u>Schedule Number</u>	<u>Rate Type</u>	<u>Annual Allocation Rate</u>
3037.15-27	R8E45	Class	1.003599
3037.15-28	R8F16	Class	1.003599
3037.16-28	R8F16	Class	1.003599
3037.15-29	R8F93	Class	1.003599
3037.16-29	R8F93	Class	1 003599

## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016

SUPERFUND TECH ASSISTANCE & RESPONSE TEAM (START)

Contractor Name WESTON SOLUTIONS, INC

EPA Contract Number EPS50604

Delivery Order Information	<u>DO #</u>	<u>Start Date</u>	<u>End Date</u>
	5001	07/27/2013	05/23/2014
	5009	05/26/2012	08/23/2013

Project Officer(s) CHUMMAR, SAM  
QUIGLEY, EDWARD  
STANUCH, GAIL

Dates of Service From: 05/26/2012 To 05/23/2014

Summary of Service S/F TECH ASSESSMENT&amp;RESPONSE TEAM (REDI)

Total Costs. \$45,703 07

<u>Voucher Number</u>	<u>Voucher Date</u>	<u>Voucher Amount</u>	<u>Treasury Schedule Number and Date</u>	<u>Site Amount</u>	<u>Annual Allocation</u>
9-A44	07/20/2012	30,129.19	AVC120174 08/22/2012	1,903 55	116.78
9-A45	08/20/2012	34,187 03	AVC120187 09/11/2012	1,359 24	83 39
1-A83	09/19/2013	413,638.87	AVC140007 10/21/2013	318 80	19 56
9-A58	09/19/2013	27,528.81	AVC140007 10/21/2013	98 00	6 01
1-A84	10/18/2013	639,699.45	AVC140024 11/06/2013	2,219 00	136 13
1-A85	11/18/2013	387,502.89	AVC140049 12/11/2013	9,631 06	590 84
1-A86	12/20/2013	443,537 12	AVC140071 01/14/2014	14,384 29	882 43
1-A88	01/17/2014	529,253 48	AVC140091 02/12/2014	10,100 65	619 64
9-A61Z	12/27/2013	-214 22	JV0018988 02/19/2014	-1 54	-0 09
1-A89	02/14/2014	422,237.26	AVC140110 03/12/2014	2,547 80	156 30
1-A90	03/20/2014	378,831.12	AVC140129 04/07/2014	268.55	16 47
1-A93	06/12/2014	318,339.00	AVC140304 09/03/2014	231.98	14 23
Total:				<u>\$43,061 38</u>	<u>\$2,641.69</u>

## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016SUPERFUND TECH ASSISTANCE & RESPONSE TEAM (START)

Contractor Name WESTON SOLUTIONS, INC.

EPA Contract Number: EPS50604

Delivery Order Information

<u>DO #</u>	<u>Start Date</u>	<u>End Date</u>
5001	07/27/2013	05/23/2014
5009	05/26/2012	08/23/2013

Project Officer(s) CHUMMAR, SAM  
QUIGLEY, EDWARD  
STANUCH, GAIL

Dates of Service From: 05/26/2012 To 05/23/2014

Summary of Service. S/F TECH ASSESSMENT&RESPONSE TEAM (REDI)

Total Costs \$45,703 07

<u>Voucher Number</u>	<u>Schedule Number</u>	<u>Rate Type</u>	<u>Annual Allocation Rate</u>
9-A44	AVC120174	Provisional	0 061347
9-A45	AVC120187	Provisional	0 061347
9-A83	AVC140007	Provisional	0 061347
9-A58	AVC140007	Provisional	0.061347
1-A84	AVC140024	Provisional	0 061347
1-A85	AVC140049	Provisional	0 061347
1-A86	AVC140071	Provisional	0 061347
1-A88	AVC140091	Provisional	0 061347
9-A61Z	JV0018988	Provisional	0.061347
1-A89	AVC140110	Provisional	0.061347
1-A90	AVC140129	Provisional	0 061347
1-A93	AVC140304	Provisional	0.061347



## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016TECHNICAL AND ANALYTICAL SUPPORT CONTRACT (TAS)

Contractor Name TOEROEK ASSOCIATES, INC

EPA Contract Number EPS51401

Delivery Order Information	<u>DO #</u>	<u>Start Date</u>	<u>End Date</u>
	1	04/03/2016	05/28/2016

Project Officer(s) PETERSON, STEVEN

Dates of Service From 04/03/2016 To 05/28/2016

Summary of Service: TECHNICAL AND ANALYTICAL SUPPORT SERVICE

Total Costs \$658 47

<u>Voucher Number</u>	<u>Voucher Date</u>	<u>Voucher Amount</u>	<u>Treasury Schedule Number and Date</u>	<u>Site Amount</u>	<u>Annual Allocation</u>
18	05/16/2016	26,528 77	AVC160183 06/08/2016	128.21	43 00
19	06/15/2016	52,132 69	AVC160200 06/30/2016	364 89	122.37
Total.				<u>\$493 10</u>	<u>\$165 37</u>

## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016TECHNICAL AND ANALYTICAL SUPPORT CONTRACT (TAS)

Contractor Name: TOEROEK ASSOCIATES, INC  
EPA Contract Number. EPS51401  
Delivery Order Information DO # Start Date End Date  
1 04/03/2016 05/28/2016  
Project Officer(s) PETERSON, STEVEN  
Dates of Service: From. 04/03/2016 To. 05/28/2016  
Summary of Service TECHNICAL AND ANALYTICAL SUPPORT SERVICE  
Total Costs: \$658 47

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<u>Voucher Number</u>	<u>Schedule Number</u>	<u>Rate Type</u>	<u>Annual Allocation Rate</u>
18	AVC160183	Class	0.335374
19	AVC160200	Class	0 335374

## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016TECHNICAL SERVICE AND SUPPORT

Contractor Name COMPUTER SCIENCES CORPORATION  
EPA Contract Number EPW06046  
Project Officer(s) TAYLOR, LUCINDA  
Dates of Service From 03/29/2008 To 04/03/2009  
Summary of Service TECHNICAL SERVICES AND SUPPORT  
Total Costs \$4,477.98

<u>Voucher Number</u>	<u>Voucher Date</u>	<u>Voucher Amount</u>	<u>Treasury Schedule Number and Date</u>	<u>Site Amount</u>	<u>Annual Allocation</u>
4791.0-024	06/10/2008	845,135.41	R8E48 07/09/2008	1,744.65	1,848.39
4791.0-025	07/14/2008	619,002.94	R8F30 08/08/2008	411.12	435.57
4791.1-0001	07/14/2008	419,662.77	R8F30 08/08/2008	42.30	44.82
30RAFY09	07/20/2010	36,460.50	R0989 08/18/2010	35.15	27.90
91.1-RAFY09	07/20/2010	132,185.91	R0989 08/18/2010	0.71	0.56
JVL3315	07/20/2011	0.00	L3315 07/20/2011	-55.36	-57.83
Total				<u>\$2,178.57</u>	<u>\$2,299.41</u>

## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016TECHNICAL SERVICE AND SUPPORT

Contractor Name COMPUTER SCIENCES CORPORATION  
EPA Contract Number EPW06046  
Project Officer(s): TAYLOR, LUCINDA  
Dates of Service From: 03/29/2008 To: 04/03/2009  
Summary of Service: TECHNICAL SERVICES AND SUPPORT  
Total Costs: \$4,477 98

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<u>Voucher Number</u>	<u>Schedule Number</u>	<u>Rate Type</u>	<u>Annual Allocation Rate</u>
4791 0-024	R8E48	Final	1 059464
4791 0-025	R8F30	Final	1 059464
4791.1-0001	R8F30	Final	1 059464
30RAFY09	R0989	Final	0.793822
91.1-RAFY09	R0989	Final	0 793822
IVL3315	L3315	Provisional	1 044540

## Contract Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

TECHNICAL SERVICE AND SUPPORT

Contractor Name: PRIMUS SOLUTIONS, INC

EPA Contract Number: EPW11024

Delivery Order Information DO # Start Date End Date  
 19 07/30/2012 02/28/2016

Project Officer(s) CALVIN, LYNN  
 RZEZNIK, ANNA

Dates of Service From: 07/30/2012 To: 02/28/2016

Summary of Service: TECHNICAL SERVICES AND SUPPORT

Total Costs \$258.70

<u>Voucher Number</u>	<u>Voucher Date</u>	<u>Voucher Amount</u>	<u>Treasury Schedule Number and Date</u>	<u>Site Amount</u>
427993	09/17/2012	80,292.33	AVC120200 09/28/2012	43.61
1	11/15/2012	66,750.76	AVC130067 12/07/2012	14.41
15	12/17/2013	82,624.52	AVC140072 01/15/2014	21.02
16	01/23/2014	99,552.32	AVC140100 02/26/2014	10.51
17	02/18/2014	67,039.53	AVC140119 03/24/2014	10.51
22	07/17/2014	87,562.57	AVC140277 08/14/2014	10.82
35	07/13/2015	86,975.26	AVC150225 08/18/2015	28.88
37	09/15/2015	114,408.19	AVC160014 10/21/2015	73.32
41	12/17/2015	98,575.12	AVC160067 01/06/2016	22.81
44	03/14/2016	82,168.28	AVC160129 04/01/2016	22.81
Total:				<u>\$258.70</u>

Financial Cost Summary for the Contract Lab Program  
LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016

**CONTRACT LAB PROGRAM (CLP) COSTS**

Total Routine Analytical Services (RAS) Costs	\$30,785.29
Total Financial Cost Summary	<u>\$30,785.29</u>

Financial Cost Summary for the Contract Lab Program  
LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016

**CONTRACT LAB PROGRAM (CLP) COSTS**Routine Analytical Services (RAS)

Total Costs.       \$30,785 29

<u>Voucher Number</u>	<u>Voucher Date</u>	<u>Voucher Amount</u>	<u>Treasury Schedule Number and Date</u>	<u>Site Amount</u>	<u>SMO Amount</u>
<u>Case Number. 37407</u>					
<u>EPA Contract Number EPW05032, KAP TECHNOLOGIES, INC</u>					
8144	06/06/2008	1,650 60	R8E42 07/07/2008	1,650 60	1,748 75
8145	06/06/2008	2,907 00	R8E42 07/07/2008	2,907 00	3,079 86
8146	06/11/2008	5,548 80	R8E53 07/09/2008	5,548 80	5,878 75
Totals for EPW05032:				\$10,106 40	\$10,707 37
<u>EPA Contract Number EPW06047, CHEMTECH CONSULTING GROUP, INC</u>					
282497	06/03/2008	1,672.00	R8E35 07/01/2008	1,672.00	1,771 42
282499	06/03/2008	1,496.00	R8E35 07/01/2008	1,496 00	1,584 96
Totals for EPW06047				\$3,168.00	\$3,356 38
Totals for Case Number 37407				\$13,274.40	\$14,063 75
<u>Case Number. 37475</u>					
<u>EPA Contract Number EPW05031, SHEALY ENVIRONMENTAL SERVICES, INC</u>					
97288	06/24/2008	1,497 80	R8E92 07/24/2008	1,497 80	1,586 87
Totals for EPW05031.				\$1,497 80	\$1,586.87
<u>EPA Contract Number EPW06047, CHEMTECH CONSULTING GROUP, INC.</u>					
282699	06/25/2008	176 00	R8E92 07/24/2008	176.00	186.47
Totals for EPW06047:				\$176.00	\$186.47
Totals for Case Number 37475				\$1,673 80	\$1,773.34
Totals for Routine Analytical Services:				\$14,948 20	\$15,837 09

Financial Cost Summary for the Contract Lab Program  
LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM  
Cumulative Site Expenditures Through 10/31/2016

**CONTRACT LAB PROGRAM (CLP) COSTS**

Fiscal  
Year  
2008

Rate Type  
Final

SMO  
Rate  
1.059464



**Miscellaneous (MIS) Costs**

**LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM**

**Cumulative Site Expenditures Through 10/31/2016**

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

<u>Fiscal Year</u>	<u>Direct Costs</u>	<u>Indirect Rate( %)</u>	<u>Indirect Costs</u>
2007	411.10	62.91%	258.62
2008	48,559.93	61.66%	29,942.07
2009	1,238.13	62.76%	777.05
2010	774.54	49.25%	381.46
2011	97.74	61.61%	60.21
2012	27,092.11	56.41%	15,282.70
2013	56,449.89	57.47%	32,441.74
2014	1,306,093.89	77.22%	1,008,565.72
2015	398.90	61.96%	247.15
2016	1,899.05	61.96%	1,176.66
2017	372.33	61.96%	230.70
	<u>1,443,387.61</u>		<u>\$1,089,364.08</u>

Total EPA Indirect Costs

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
AULTZ, ERICA	2007	03	6 38	62 91%	4 01
			6 38		\$4 01
RIPLEY, LAURA	2007	03	388.82	62 91%	244 61
		13	15.90	62 91%	10 00
			404 72		\$254 61
Total Fiscal Year 2007 Payroll Direct Costs			411 10		\$258 62
Total Fiscal Year 2007			411.10		\$258.62

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
BYVIK, RICHARD	2008	19	120.43	61 66%	74 26
		20	60.20	61 66%	37 12
		21	60.21	61 66%	37 13
			240 84		\$148.51
PETERSON, STEVEN	2008	17	29 61	61 66%	18 26
		18	29 61	61 66%	18 26
		19	29 61	61 66%	18.26
			88 83		\$54 78
PHAM, HOWARD	2008	19	303 88	61.66%	187 37
			303 88		\$187 37
RIPLEY, LAURA	2008	11	95 45	61 66%	58 85
		13	95 47	61 66%	58 87

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
RIPLEY, LAURA	2008	15	159.12	61.66%	98.11
			350.04		\$215.83
Total Fiscal Year 2008 Payroll Direct Costs			983.59		\$606.49

OTHER DIRECT COSTS

<u>Contract, IAG, SCA, Misc.NO</u>	<u>Voucher Number</u>	<u>Treasury Schedule Date</u>	<u>Site Amount</u>	<u>Annual/SMO Allocation Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
EPW05031	97288	07/24/2008	1,497.80	1,586.87	61.66%	1,902.01
			1,497.80	1,586.87		\$1,902.01
EPW05032	8144	07/07/2008	1,650.60	1,748.75	61.66%	2,096.04
	8145	07/07/2008	2,907.00	3,079.86	61.66%	3,691.50
	8146	07/09/2008	728.00	771.29	61.66%	924.46
			520.26	551.20	61.66%	660.66
			3,708.26	3,928.77	61.66%	4,708.99
			592.28	627.50	61.66%	752.12
			10,106.40	10,707.37		\$12,833.77
EPW06031	3037 15-27	07/08/2008	1,454.26	1,459.49	61.66%	1,796.62
	3037 15-28	08/04/2008	485.98	487.73	61.66%	600.39
	3037 16-28	08/04/2008	3,187.30	3,198.77	61.66%	3,937.65
	3037 15-29	09/04/2008	222.92	223.72	61.66%	275.40
	3037 16-29	09/04/2008	770.63	773.40	61.66%	952.05
			6,121.09	6,143.11		\$7,562.11
EPW06046	4791.0-024	07/09/2008	1,744.65	1,848.39	61.66%	2,215.47
	4791.1-0001	08/08/2008	42.30	44.82	61.66%	53.72

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

OTHER DIRECT COSTS

<u>Contract, IAG, SCA, Misc NO</u>	<u>Voucher Number</u>	<u>Treasury Schedule Date</u>	<u>Site Amount</u>	<u>Annual/SMO Allocation Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
EPW06046	4791 0-025	08/08/2008	411.12	435.57	61.66%	522.07
			2,198.07	2,328.78		\$2,791.26
EPW06047	282497	07/01/2008	298.02	315.74	61.66%	378.44
			1,373.98	1,455.68	61.66%	1,744.77
	282499	07/01/2008	1,496.00	1,584.96	61.66%	1,899.72
	282699	07/24/2008	176.00	186.47	61.66%	223.50
			3,344.00	3,542.85		\$4,246.43
Total Fiscal Year 2008 Other Direct Costs			23,267.36	24,308.98		\$29,335.58
Total Fiscal Year 2008			48,559.93			\$29,942.07

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
AULTZ, ERICA	2009	15	76.38	62.76%	47.94
		18	152.77	62.76%	95.88
		19	324.64	62.76%	203.74
		21	78.81	62.76%	49.46
			632.60		\$397.02
SHORT, THOMAS	2009	01	605.53	62.76%	380.03
			605.53		\$380.03
Total Fiscal Year 2009 Payroll Direct Costs			1,238.13		\$777.05
Total Fiscal Year 2009.			1,238.13		\$777.05

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
AULTZ, ERICA	2010	04	45.48	49.25%	22.40
		26	664.74	49.25%	327.38
			710.22		\$349.78
Total Fiscal Year 2010 Payroll Direct Costs:			710.22		\$349.78

OTHER DIRECT COSTS

<u>Contract, IAG, SCA, Misc. NO</u>	<u>Voucher Number</u>	<u>Treasury Schedule Date</u>	<u>Site Amount</u>	<u>Annual/SMO Allocation Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
EPW06046	91 1-RAFY09	08/18/2010	0.71	0.56	49.25%	0.63
	30RAFY09	08/18/2010	35.15	27.90	49.25%	31.05
			35.86	28.46		\$31.68
Total Fiscal Year 2010 Other Direct Costs:			35.86	28.46		\$31.68
Total Fiscal Year 2010:			774.54			\$381.46

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
RIBORDY, MICHAEL	2011	02	210.93	61.61%	129.95
			210.93		\$129.95
Total Fiscal Year 2011 Payroll Direct Costs			210.93		\$129.95

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

OTHER DIRECT COSTS

<u>Contract, IAG, SCA, Misc.NO</u>	<u>Voucher Number</u>	<u>Treasury Schedule Date</u>	<u>Site Amount</u>	<u>Annual/SMO Allocation Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
EPW06046	JVL3315	07/20/2011	-55.36	-57.83	61.61%	-69.74
			-55.36	-57.83		\$-69.74
Total Fiscal Year 2011 Other Direct Costs			-55.36	-57.83		\$-69.74
Total Fiscal Year 2011.				97.74		\$60.21

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
BENNING, BRADLEY	2012	10	391.89	56.41%	221.07
		11	319.18	56.41%	180.05
		15	957.50	56.41%	540.13
		16	1,170.94	56.41%	660.53
		18	1,078.92	56.41%	608.62
		19	1,196.86	56.41%	675.15
		20	1,037.27	56.41%	585.12
		21	558.53	56.41%	315.07
		22	558.53	56.41%	315.07
		23	1,287.36	56.41%	726.20
		24	1,755.39	56.41%	990.22
		25	1,332.40	56.41%	751.61
		26	3,191.63	56.41%	1,800.40
		27	877.70	56.41%	495.11
			15,714.10		\$8,864.35
BORRIES, SAMUEL	2012	26	455.83	56.41%	257.13
			455.83		\$257.13
KAWECKI, JOSEPH	2012	11	1,193.42	56.41%	673.21

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
KAWECKI, JOSEPH	2012	22	298.34	56.41%	168.29
			1,491.76		\$841.50
KEATING, DEBRA	2012	08	109.52	56.41%	61.78
		09	128.76	56.41%	72.63
		10	321.89	56.41%	181.58
		11	225.33	56.41%	127.11
		12	32.18	56.41%	18.15
		14	32.18	56.41%	18.15
		16	32.18	56.41%	18.15
		17	257.52	56.41%	145.27
		19	257.52	56.41%	145.27
		20	482.84	56.41%	272.37
		22	1,223.20	56.41%	690.01
		23	32.78	56.41%	18.49
		24	193.14	56.41%	108.95
		25	225.32	56.41%	127.10
		26	708.15	56.41%	399.47
		27	98.06	56.41%	55.32
			4,360.57		\$2,459.80
KYTE, LAWRENCE	2012	24	43.02	56.41%	24.27
			43.02		\$24.27
MARKS, THOMAS	2012	11	19.21	56.41%	10.84
			19.21		\$10.84
MCGARY, DARLENE	2012	27	33.91	56.41%	19.13
			33.91		\$19.13
VEZNER, KRIS	2012	17	522.56	56.41%	294.78



## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
VEZNER, KRIS	2012	19	100 48	56 41%	56 68
		20	60.29	56 41%	34.01
		22	301 47	56.41%	170.06
		23	20.09	56.41%	11.33
		24	40 20	56.41%	22.68
		25	160.78	56 41%	90 70
		26	261.27	56 41%	147.38
			<u>1,467 14</u>		<u>\$827.62</u>

Total Fiscal Year 2012 Payroll Direct Costs:

23,585.54\$13,304 64OTHER DIRECT COSTS

<u>Contract, IAG, SCA, Misc.NO</u>	<u>Voucher Number</u>	<u>Treasury Schedule Date</u>	<u>Site Amount</u>	<u>Annual/SMO Allocation Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
EPS50604	9-A44	08/22/2012	1,903 55	116 78	56.41%	1,139 67
	9-A45	09/11/2012	1,359 24	83 39	56 41%	813 79
			<u>3,262.79</u>	<u>200 17</u>		<u>\$1,953 46</u>
EPW11024	427993	09/28/2012	43.61	0 00	56 41%	24 60
			<u>43 61</u>	<u>0 00</u>		<u>\$24 60</u>

Total Fiscal Year 2012 Other Direct Costs.

3,306 40200.17\$1,978 06

Total Fiscal Year 2012

27,092 11\$15,282 70

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
AULTZ, ERICA	2013	24	49.34	57.47%	28.36
			49.34		\$28.36
BENNING, BRADLEY	2013	01	1,037.27	57.47%	596.12
		02	1,037.27	57.47%	596.12
		03	1,037.27	57.47%	596.12
		04	1,379.71	57.47%	792.92
		05	1,753.42	57.47%	1,007.69
		06	1,219.77	57.47%	701.00
		07	478.75	57.47%	275.14
		08	1,117.45	57.47%	642.20
		09	1,118.37	57.47%	642.73
		10	878.72	57.47%	505.00
		11	2,076.97	57.47%	1,193.63
		12	520.38	57.47%	299.06
		13	1,198.26	57.47%	688.64
		14	1,118.37	57.47%	642.73
		15	1,677.54	57.47%	964.08
		16	1,837.32	57.47%	1,055.91
		17	1,489.82	57.47%	856.20
		18	1,077.15	57.47%	619.04
		19	1,019.35	57.47%	585.82
		21	995.31	57.47%	572.00
		22	639.07	57.47%	367.27
		23	947.56	57.47%	544.56
		24	1,191.60	57.47%	684.81
		25	2,875.81	57.47%	1,652.73
		26	1,278.14	57.47%	734.55
		27	1,278.14	57.47%	734.55
			32,278.79		\$18,550.62
LATING, DEBRA	2013	01	764.18	57.47%	439.17
		02	32.18	57.47%	18.49
		04	96.56	57.47%	55.49

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
KEATING, DEBRA	2013	05	32 18	57 47%	18 49
		12	64.47	57 47%	37 05
		13	32.24	57.47%	18 53
		21	15 91	57.47%	9 14
		26	31 96	57 47%	18.37
		27	33.12	57 47%	19 03
			<u>1,102.80</u>		<u>\$633 76</u>
KYTE, LAWRENCE	2013	03	129 04	57.47%	74 16
		04	107 55	57 47%	61 81
		05	215.08	57 47%	123.61
		06	43 01	57 47%	24 72
		07	86 06	57 47%	49 46
		08	64 52	57 47%	37 08
		09	21 55	57 47%	12.38
		10	21.55	57 47%	12.38
		11	21 55	57 47%	12.38
		15	21.55	57 47%	12.38
		18	42.78	57.47%	24.59
		19	21.23	57.47%	12.20
		20	21.55	57.47%	12.38
		21	21.39	57 47%	12.29
		22	21.55	57 47%	12 38
		23	86.15	57.47%	49.51
		25	43 10	57 47%	24.77
		27	43.10	57 47%	24 77
			<u>1,032.31</u>		<u>\$593.25</u>
MARKS, THOMAS	2013	14	19 25	57 47%	11 06
			<u>19.25</u>		<u>\$11.06</u>
MCGARY, DARLENE	2013	16	17.00	57 47%	9 77

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
MCGARY, DARLENE	2013	26	17.00	57.47%	9.77
			34.00		\$19.54
NELSON, THOMAS	2013	10	23.78	57.47%	13.67
		22	23.78	57.47%	13.67
		23	47.53	57.47%	27.32
		24	23.78	57.47%	13.67
		26	47.53	57.47%	27.32
			166.40		\$95.65
MUEL, JANET	2013	12	14.32	57.47%	8.23
			14.32		\$8.23
TANAKA, JOAN	2013	02	173.11	57.47%	99.49
		04	256.10	57.47%	147.18
		06	85.37	57.47%	49.06
			514.58		\$295.73
VEZNER, KRIS	2013	02	180.86	57.47%	103.94
		03	140.68	57.47%	80.85
		04	77.68	57.47%	44.64
		05	1,726.30	57.47%	992.10
		06	306.89	57.47%	176.37
		07	111.72	57.47%	64.21
		08	60.30	57.47%	34.65
		09	120.81	57.47%	69.43
		11	161.06	57.47%	92.56
		12	80.53	57.47%	46.28
		13	302.00	57.47%	173.56
		15	161.06	57.47%	92.56
		16	100.66	57.47%	57.85
		18	287.53	57.47%	165.24

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
VEZNER, KRIS	2013	19	20 13	57 47%	11 57
		20	436 73	57 47%	250 99
		21	158.48	57 47%	91.08
		22	161 06	57 47%	92 56
		23	322 13	57 47%	185 13
		24	402 68	57 47%	231 42
		25	402.68	57 47%	231 42
		26	140.94	57 47%	81 00
		27	100.67	57 47%	57.86
			5,963.58		\$3,427 27

Total Fiscal Year 2013 Payroll Direct Costs.

41,175 37

\$23,663 47

OTHER DIRECT COSTS

<u>Contract, IAG, SCA, Misc.NO</u>	<u>Voucher Number</u>	<u>Treasury Schedule Date</u>	<u>Site Amount</u>	<u>Annual/SMO Allocation Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
EPS50804	TO0054-001	04/10/2013	9,626 32	0 00	57.47%	5,532.25
	TO0054-002	05/09/2013	5,633 79	0 00	57 47%	3,237 74
			15,260 11	0 00		\$8,769.99
EPW11024	1	12/07/2012	14 41	0 00	57 47%	8.28
			14 41	0 00		\$8 28

Total Fiscal Year 2013 Other Direct Costs:

15,274.52

0 00

\$8,778.27

Total Fiscal Year 2013

56,449 89

\$32,441.74

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
BENNING, BRADLEY	2014	01	798.83	77.22%	616.86
		02	5,112.55	77.22%	3,947.91
		03	6,390.68	77.22%	4,934.88
		04	5,272.31	77.22%	4,071.28
		05	871.80	77.22%	673.20
		06	6,106.11	77.22%	4,715.14
		07	2,556.03	77.22%	1,973.77
		08	958.52	77.22%	740.17
		09	808.01	77.22%	623.95
		10	1,373.63	77.22%	1,060.72
		12	323.20	77.22%	249.58
		14	323.20	77.22%	249.58
		15	323.20	77.22%	249.58
		16	404.01	77.22%	311.98
		17	323.20	77.22%	249.58
			31,945.28		\$24,668.18
BESLOW, MICHAEL	2014	04	480.08	77.22%	370.72
			480.08		\$370.72
HOLZ, THERESA	2014	05	2,111.99	77.22%	1,630.88
			2,111.99		\$1,630.88
KEATING, DEBRA	2014	10	100.33	77.22%	77.47
		15	33.44	77.22%	25.82
			133.77		\$103.29
NELSON, THOMAS	2014	18	24.03	77.22%	18.56
			24.03		\$18.56

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind Rate (%)</u>	<u>Indirect Costs</u>
RIBORDY, MICHAEL	2014	06	315.30	77.22%	243.47
			315.30		\$243.47
VEZNER, KRIS	2014	03	20.13	77.22%	15.54
		04	40.26	77.22%	31.09
		05	19.76	77.22%	15.26
		07	20.14	77.22%	15.55
			100.29		\$77.44
Total Fiscal Year 2014 Payroll Direct Costs:			35,110.74		\$27,112.54

OTHER DIRECT COSTS

<u>Contract, IAG, SCA, Misc.NO</u>	<u>Voucher Number</u>	<u>Treasury Schedule Date</u>	<u>Site Amount</u>	<u>Annual/SMO Allocation Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
EPS50604	1-A83	10/21/2013	-318.80	-19.56	77.22%	-261.28
			318.80	19.56	77.22%	261.28
			318.80	19.56	77.22%	261.28
	9-A58	10/21/2013	98.00	6.01	77.22%	80.32
	1-A84	11/06/2013	2,219.00	136.13	77.22%	1,818.63
	1-A85	12/11/2013	8,729.99	535.56	77.22%	7,154.86
			901.07	55.28	77.22%	738.49
	1-A86	01/14/2014	14,384.29	882.43	77.22%	11,788.96
	1-A88	02/12/2014	10,100.65	619.64	77.22%	8,278.21
	9-A61Z	02/19/2014	-1.54	-0.09	77.22%	-1.26
	1-A89	03/12/2014	2,547.80	156.30	77.22%	2,088.11
	1-A90	04/07/2014	268.55	16.47	77.22%	220.09
	1-A93	09/03/2014	231.98	14.23	77.22%	190.12
			39,798.59	2,441.52		\$32,617.81
EPS50804	TO0054-003	12/24/2013	124,426.77	0.00	77.22%	96,082.35
	TO0054-004	02/13/2014	784,377.07	0.00	77.22%	605,695.97

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

OTHER DIRECT COSTS

<u>Contract, IAG, SCA, Misc.NO</u>	<u>Voucher Number</u>	<u>Treasury Schedule Date</u>	<u>Site Amount</u>	<u>Annual/SMO Allocation Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
EPS50804	TO0054-003S	02/13/2014	3,019.38	0.00	77.22%	2,331.57
	TO0054-005	03/24/2014	21,884.89	0.00	77.22%	16,899.51
			200,000.00	0.00	77.22%	154,440.00
	TO0054-003R	03/24/2014	436.35	0.00	77.22%	336.95
	TO0054-005	03/24/2014	72,480.32	0.00	77.22%	55,969.30
	TO0054-006	05/16/2014	11,682.34	0.00	77.22%	9,021.10
	TO0054-004R	05/16/2014	9,477.55	0.00	77.22%	7,318.56
	TO0054-004S	09/09/2014	905.51	0.00	77.22%	699.23
			1,228,690.18	0.00		\$948,794.54
EPW11024	15	01/15/2014	21.02	0.00	77.22%	16.23
	16	02/26/2014	10.51	0.00	77.22%	8.12
	17	03/24/2014	10.51	0.00	77.22%	8.12
	22	08/14/2014	10.82	0.00	77.22%	8.36
			52.86	0.00		\$40.83
Total Fiscal Year 2014 Other Direct Costs:			1,268,541.63	2,441.52		\$981,453.18
Total Fiscal Year 2014.			1,306,093.89			\$1,008,565.72

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
KEATING, DEBRA	2015	25	33.82	61.96%	20.95
			33.82		\$20.95



## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind Rate (%)</u>	<u>Indirect Costs</u>
MARKS, THOMAS	2015	11	19 68	61 96%	12 19
			19.68		\$12.19
Total Fiscal Year 2015 Payroll Direct Costs:			53 50		\$33.14

OTHER DIRECT COSTS

<u>Contract, IAG, SCA, Misc.NO</u>	<u>Voucher Number</u>	<u>Treasury Schedule Date</u>	<u>Site Amount</u>	<u>Annual/SMO Allocation Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
EPS50804	TO0054-007	12/11/2014	295 43	0 00	61.96%	183 05
			295.43	0.00		\$183 05
EPW11016	30-803405	01/08/2015	21.09	0.00	61 96%	13 07
			21 09	0 00		\$13 07
EPW11024	35	08/18/2015	28 88	0 00	61 96%	17 89
			28 88	0.00		\$17 89
Total Fiscal Year 2015 Other Direct Costs			345 40	0 00		\$214 01
Total Fiscal Year 2015:			398 90			\$247 15

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
BENSING, MILAGROS	2016	16	13.84	61 96%	8.58

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

PAYROLL DIRECT COSTS

<u>Employee Name</u>	<u>Fiscal Year</u>	<u>Pay Period</u>	<u>Payroll Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
BENSING, MILAGROS	2016	22	13.84	61.96%	8.58
			27.68		\$17.16
KEATING, DEBRA	2016	09	68.95	61.96%	42.72
		15	206.85	61.96%	128.16
		16	34.48	61.96%	21.36
		17	68.95	61.96%	42.72
		20	68.95	61.96%	42.72
		24	103.43	61.96%	64.09
		25	68.94	61.96%	42.72
			620.55		\$384.49
KYTE, LAWRENCE	2016	09	22.27	61.96%	13.80
			22.27		\$13.80
TAYLOR, DARIUS	2016	15	383.84	61.96%	237.83
			383.84		\$237.83
VEZNER, KRIS	2016	26	67.30	61.96%	41.70
			67.30		\$41.70
Total Fiscal Year 2016 Payroll Direct Costs:			1,121.64		\$694.98

OTHER DIRECT COSTS

<u>Contract, IAG, SCA, Misc. NO</u>	<u>Voucher Number</u>	<u>Treasury Schedule Date</u>	<u>Site Amount</u>	<u>Annual/SMO Allocation Costs</u>	<u>Ind. Rate (%)</u>	<u>Indirect Costs</u>
S51401	18	06/08/2016	128.21	43.00	61.96%	106.08

## EPA Indirect Costs

LAKE CALUMET SMELTING, CHICAGO, IL SITE ID = B5 FM

Cumulative Site Expenditures Through 10/31/2016

OTHER DIRECT COSTS

Contract, IAG, SCA, Misc.NO	Voucher Number	Treasury Schedule Date	Site Amount	Annual/SMO Allocation Costs	Ind. Rate (%)	Indirect Costs
EPS51401	19	06/30/2016	364 89	122 37	61.96%	301.91
			493 10	165.37		\$407 99
EPW11024	37	10/21/2015	73 32	0 00	61.96%	45 43
	41	01/06/2016	22.81	0 00	61 96%	14 13
	44	04/01/2016	22.81	0.00	61 96%	14 13
			118 94	0 00		\$73 69
Total Fiscal Year 2016 Other Direct Costs.			612 04	165 37		\$481 68
Total Fiscal Year 2016			1,899.05			\$1,176.66

PAYROLL DIRECT COSTS

Employee Name	Fiscal Year	Pay Period	Payroll Costs	Ind. Rate (%)	Indirect Costs
KEATING, DEBRA	2017	02	282 60	61 96%	175 10
			282 60		\$175.10
VEZNER, KRIS	2017	02	89 73	61 96%	55 60
			89 73		\$55.60
Total Fiscal Year 2017 Payroll Direct Costs			372.33		\$230 70
Total Fiscal Year 2017.			372 33		\$230 70
Total EPA Indirect Costs					\$1,089,364 08

**Keating, Debbie**

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**From:** Taylor, Darius  
**Sent:** Friday, November 18, 2016 9 00 AM  
**To:** Keating, Debbie  
**Cc:** Hackley, Richard, Bednarz, Michael, Felitti, Peter  
**Subject:** RE URGENT ICS REQUEST - Lake Calumet Smelting Site  
**Attachments:** B5FM - ICS # 2017-014.pdf

Here you go, Deb. There weren't too many new charges since March. Please find attached the completed ICS for Lake Calumet Smelting (B5FM) for costs through 10/31/2016.

Darius L. Taylor, Financial Specialist  
U.S. Environmental Protection Agency  
Region V - RMD,CB  
Program Accounting & Analysis Section

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**From:** Felitti, Peter  
**Sent:** Friday, November 18, 2016 8:34 AM  
**To:** Taylor, Darius <taylor.darius@epa.gov>  
**Cc:** Hackley, Richard <hackley.richard@epa.gov>; Bednarz, Michael <bednarz.michael@epa.gov>; Keating, Debbie <keating.debbie@epa.gov>  
**Subject:** FW: URGENT ICS REQUEST - Lake Calumet Smelting Site

Darius,

To keep records straight. Medium priority. Thanks.

Peter

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**From:** Keating, Debbie  
**Sent:** Thursday, November 17, 2016 11:23 AM  
**To:** Felitti, Peter <felitti.peter@epa.gov>  
**Cc:** Taylor, Darius <taylor.darius@epa.gov>  
**Subject:** URGENT ICS REQUEST - Lake Calumet Smelting Site

Request attached. My sincere apology for this last-minute request. The CO memo has been worked on by the contractor and us for so long that I didn't realize until just now that the ICS is over 6 months old. I know it won't get past sign-off in Finance unless it's updated.

Thanks so much & again, sorry!

## **Reference 8**

UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF ILLINOIS  
EASTERN DIVISION

IN THE MATTER OF:

Lake Calumet Smelter Site  
11901 S. Champlain Ave. and  
651 E. 119<sup>th</sup> St.,  
Chicago, Cook County, Illinois

)  
)  
) Declaration in Support of  
) Application for a Warrant  
)  
) No.  
)  
)  
)

**DECLARATION OF BRAD BENNING**

I, BRAD BENNING, declare and state as follows:

**I. Personal History and U.S. EPA Authority**

1. I am currently employed as an On-Scene Coordinator with Region 5 of the United States Environmental Protection Agency (U.S. EPA). I have been so employed with U.S. EPA as an On-Scene Coordinator since December 1989.

2. The statements in this declaration are based on my personal knowledge, my experience as an On-Scene Coordinator ("OSC") for U.S. EPA, knowledge I have gained from reviewing documents regarding the Site that are in the possession of the Illinois Environmental Protection Agency ("Illinois EPA") and the U.S. EPA, and on knowledge I have gained during discussions with representatives of U.S. EPA and Illinois EPA, including but not limited to multiple discussions with a U.S. EPA civil investigator and a U.S. EPA Environmental Protection Specialist via phone, email and face-to-face meetings throughout 2012.

3. My education includes a Bachelor of Science degree in biology from The University of Illinois, Champaign, Urbana, which I received in 1978. From approximately 1980 through 1985, I

worked for Illinois EPA as a hazardous waste inspector. From approximately 1985 through 1989, I worked for Illinois EPA in a position analogous to an OSC.

4. As an OSC, I am duly authorized by U.S. EPA, pursuant to 40 C.F.R. §§ 300.120 and 300.135, to direct response efforts at properties and facilities where a release or threat of release of hazardous substances, pollutants, or contaminants exists and to coordinate, direct, and review the work of responsible parties and contractors to assure compliance with the National Contingency Plan ("NCP"), 40 C.F.R. Part 300, U.S. EPA decision documents, administrative orders, and U.S. EPA-approved plans applicable to the response.

5. As part of my duties as an OSC for U.S. EPA, I review documents in the files maintained by U.S. EPA and State and local agencies, and I confer with employees of U.S. EPA, State agencies, local agencies and potentially responsible parties in order to gather pertinent facts about releases and threats of release, conditions at properties where releases have occurred or are threatened, and about persons who are potentially responsible for such releases or threatened releases under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended ("CERCLA"), 42 U.S.C. § 9601 *et seq.*

6. Pursuant to Section 104 of CERCLA, 42 U.S.C. § 9604, U.S. EPA is authorized to conduct investigations, monitoring, surveying, testing, and other necessary information gathering activities at properties where U.S. EPA has reason to believe there has been or is about to occur a release of a hazardous substance, pollutant, or contaminant. Such investigations and other response activities are necessary to identify the existence and extent of a release or threat of release of a hazardous substance, the source and nature of the hazardous substances, pollutants or contaminants involved, and the extent of the danger posed to public health, public welfare, and the environment. Pursuant

to Section 104 of CERCLA, 42 U.S.C. § 9604, where U.S. EPA has determined that there has been a release or substantial threat of release into the environment of a hazardous substance, pollutant, or contaminant, U.S. EPA is authorized to take removal actions or any other response measure consistent with the NCP to protect public health or welfare or the environment.

## **II. The Lake Calumet Smelter Site**

7. I am the primary OSC assigned to the Lake Calumet Smelter Site. The Site is an abandoned industrial property that was used for metals smelting for many years. The Site is approximately 5.7 acres, with the Parcel Identification Number 25-22-401-002-0000. Street addresses for the Site are 11901 S. Champlain Ave. and 651 E. 119<sup>th</sup> St., Chicago, Cook County, Illinois.

8. In January 2012, upon my assignment to the Site, I began reviewing U.S. EPA's files. As I have worked on the Site, these files came to include a Removal Action Referral to U.S. EPA from Illinois EPA dated January 3, 2012 (Att. C); an IEPA Site Assessment report documenting an April 21-24, 2008 IEPA Site Inspection (Att. A); and results of soil and groundwater sampling from the 2008 Site Inspection (Att. B).

9. According to IEPA, from around 1980 until operator bankruptcy in 1989, IEPA repeatedly found violations of hazardous waste regulations at the Site. The Site operator installed monitoring wells at the Site in 1983, which wells detected the presence of heavy metals at the Site (Att. A, p. 9).

10. On August 10, 2004, at the request of U.S. EPA, IEPA personnel conducted a screening assessment at the Site. IEPA collected field-based soil and debris data with an X-Ray Fluorescence unit (XRF). IEPA collected samples at nine soil locations and one location on the



concrete floor of a former Site structure. Screening results indicated that contamination exists throughout the property (Att. F). IEPA detected soil contamination not only on the floor of the former building, but also at various locations away from the former structures throughout the property. IEPA compared the results to industrial regional screening levels ("RSL"s). An industrial RSL is the concentration of a contaminant in an industrial setting below which U.S. EPA will take no further action. At concentrations in an industrial setting above the industrial RSL, U.S. EPA must at least investigate to determine whether further action is required. All 10 samples exceeded the lead RSL of 800 mg/kg, with concentrations from 7,480 mg/kg to 768,000 mg/kg. Nine of the 10 samples exceeded the arsenic RSL of 1.6 mg/kg. Four of the ten samples exceeded the lead RSL by a multiple of 100 times. Three of the 10 samples contained over 100,000 mg/kg of lead, or contained over 10% lead. The highest sample contained over 75% lead, almost 1,000 times the lead RSL. Overall, these are extremely high lead concentrations.

11. On April 21-24, 2008, at the request of U.S. EPA, IEPA personnel performed a Site inspection at the Site. At locations spaced across the Site and in the immediate vicinity of the Site, IEPA collected 43 samples of groundwater and a variety of solid media. IEPA concluded that the Site warranted a removal action (Att. A, p. 38). IEPA compared many analytical results to industrial RSLs. Of 30 soil and sediment samples, 23 exceeded the lead RSL of 800 mg/kg, with concentrations up to 54,000 mg/kg for soil and 15,000 mg/kg for sediment. Of these, 12 exceeded the lead RSL by a multiple of 10 times. At 21 locations spaced across the Site, IEPA also collected field-based data with an X-Ray Fluorescence unit (XRF). At 14 of those 21 locations XRF data showed exceedances of the lead RSL of 800 mg/kg, with concentrations up to 712,740 mg/kg. Nine of the 21 samples exceeded the lead RSL by a multiple of 10 times. Two samples contained

over 100,000 mg/kg of lead, or contained over 10% lead. The highest sample contained over 70% lead, approaching 1,000 times the lead RSL. Overall, these are extremely high lead concentrations. IEPA also analyzed nine samples spaced across the Site using the Toxicity Characteristic Leaching Procedure (TCLP) method, the standard for determining whether a material constitutes a hazardous waste under the federal law for hazardous waste management, the Resource Conservation and Recovery Act, 42 U.S.C. §§ 6901 et seq. All nine samples exceeded the lead TCLP limit of 5 mg/l, with concentrations from 11 mg/l to 1,700 mg/l. Four of the nine samples exceeded the lead TCLP limit by a multiple of 100 times, and in fact exceeded that limit by over 200 times with lead concentrations of over 1,000 mg/l each. Three of the nine samples analyzed using the TCLP method exceeded the cadmium TCLP limit of 1 mg/l, with concentrations from 1.8 mg/l to 7.3 mg/l (Att. B). The TCLP results show that serious contamination exists at the Site.

12. IEPA personnel also found the Site only partially secured, with evidence of trespassers. IEPA noted that because the facility has little vegetative cover and because IEPA found heavy metals on the soil surface and on the floor of Site buildings, the risk of exposure to anyone disturbing the Site surface was greatly increased (Att. A).

13. In a letter dated January 3, 2012, Illinois EPA requested assistance from the U.S. EPA in removing hazardous substances, pollutants, and contaminants at the Site that pose a threat to human health or the environment (Att. C). The letter states that the Site is abandoned, only partially secured and shows evidence of trespassers.

14. On January 26, 2012, I conducted a visual inspection of the Site. The Site appears to be abandoned. The Site was partially fenced and what fencing existed had multiple gaps, allowing essentially unimpeded access to the Site. Site buildings had been reduced to debris piles and

concrete foundations, except for a single chimney still standing amid the rubble. I observed multiple old gas cylinders and drums scattered at the Site. See photographs (Att. D). All of the drums contained a fine grey powder consistent with the appearance of baghouse dust. During its 2004 assessment discussed in paragraph 10, above, IEPA performed XRF analysis of the contents of one of the drums. The XRF analysis found that the dust contained lead concentrations above the maximum reading possible for the XRF device. During its 2008 inspection discussed in paragraph 11, above, IEPA also sampled one of the drums and the dust sample also contained high levels of lead (9,730 mg/kg) and cadmium (286 mg/kg).

15. The Site is in an urban, industrial area, approximately 1,500 feet from Interstate 94. Multiple residences and schools are within one mile of the Site. The Site is in a high-priority, environmental justice area as measured by U.S. EPA criteria.

16. U.S. EPA proposes to effectuate the following action:

- (1) implement a site health and safety plan;
- (2) secure the Site through repair and/or replacement of existing fencing as appropriate;
- (3) remove and dispose of drums, site debris and vegetation;
- (4) excavate soil to a depth of one foot;
- (5) after removing the initial foot of soil, conduct additional sampling to delineate the remaining extent of contaminated soil;
- (6) further remove contaminated soil with concentrations above the industrial RSL of 800 mg/kg for lead, 380 mg/kg for arsenic, and 10,000 mg/kg cadmium to a depth of approximately one additional foot;
- (7) treat contaminated soil with a fixation agent and arrange for it to be treated and disposed of off-site;
- (8) backfill with clean soil and vegetate to prevent soil erosion;

17. The removal action will be conducted in a manner not inconsistent with the NCP. The threats posed by uncontrolled substances considered hazardous meet the criteria listed in Section 300.415(b)(2) of the NCP, and the response actions proposed herein are consistent with any long-term remedial actions that may be required.

18. The heavy metals at the Site threaten the public health and welfare and the environment. Lead, arsenic and cadmium are identified as hazardous substances as defined by Section 101(14) of CERCLA. While the Site is fenced, gaps exist at multiple locations. Trespassers or vandals could come into direct contact with the contaminated surface soils at the Site and track this contamination off-site. Off-site migration of the documented hazardous waste would greatly increase the potential exposure to nearby human populations, animals, and the food chain. The Site is located in a mixed commercial and industrial area with residential neighborhoods within a half mile and several schools within one mile of the property.

19. The Agency for Toxic Substances and Disease Registry (ATSDR) has studied the health effects of these hazardous substances, and information about each is provided below.

20. Lead can affect almost every organ and system in the body. The main target for lead toxicity is the nervous system, both in adults and children. Long-term exposure of adults can result in decreased performance in some tests that measure functions of the nervous system. It may also cause weakness in fingers, wrists, or ankles. Lead exposure also causes small increases in blood pressure, particularly in middle-aged and older people and can cause anemia. Exposure to high lead levels can severely damage the brain and kidneys in adults or children and ultimately cause death. In pregnant women, high levels of exposure to lead may cause miscarriage. High-level exposure in men can damage the organs responsible for sperm production. The Department of

Health and Human Services (DHHS) has determined that lead and lead compounds are reasonably anticipated to be human carcinogens, and U.S. EPA has determined that lead is a probable human carcinogen (ATSDR, Chemical Abstract Services [CAS] #7439-92-1, August 2007).

21. Ingesting very high levels of arsenic can result in death. Exposure to lower levels can cause nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of “pins and needles” in hands and feet.

Ingesting or breathing low levels of inorganic arsenic for a long time can cause a darkening of the skin and the appearance of small “corns” or “warts” on the palms, soles and torso. Skin contact with inorganic arsenic may cause redness and swelling. Several studies have shown that ingestion of inorganic arsenic can increase the risk of skin cancer and cancer of the liver, bladder, and lungs.

Inhalation of inorganic arsenic can cause increase risk of lung cancer. DHHS and the EPA have determined that inorganic arsenic is a known human carcinogen (ATSDR, CAS #7440-38-2, August 2007).

22. Breathing high levels of cadmium can severely damage the lungs. Eating food or drinking water with very high levels severely irritates the stomach, leading to vomiting and diarrhea. Long-term exposure to lower levels of cadmium in air, food, or water leads to a buildup of cadmium in the kidneys and possible kidney disease. Other long-term effects are lung damage and fragile bones, DHHS has determined that cadmium and cadmium compounds are known human carcinogens (ATSDR, CAS #7440-43-9, September 2008).

23. Based on my review of U.S. EPA and Illinois EPA documents, my knowledge of inspections at and assessments of the Site, and my experience as an OSC for U.S. EPA, I conclude that releases of hazardous substances, pollutants, and contaminants have taken place at the Site,

and threats of additional releases of hazardous substances, pollutants, or contaminants exist at the Site. Therefore, the proposed removal action is necessary to protect the public health, welfare and the environment.

24. If a warrant for access is issued, it shall be posted at the subject property.

25. If a warrant for access is issued, I will participate in the removal action at the property with authorized representatives of U.S. EPA, including U.S. EPA contractors and Illinois EPA, who have been authorized by U.S. EPA to assist in the response action.

26. If a warrant for access is issued, the removal activities will be carried out with reasonable promptness from the date of the posting of the warrant on the property at issue. From the date that the warrant is posted, it is estimated that it will take approximately 45 on-site working days (excluding weekends) to schedule and mobilize personnel and equipment, and perform the initial phase of the removal activities at the property. Unexpected delays can occur due to circumstances such as inclement weather, the unavailability of off-Site disposal facilities, and regional emergencies requiring immediate response. To account for any unexpected delays, U.S. EPA seeks access to the Site for a total of 180 days.













## **ATTACHMENTS**

- A. Site Assessment Report (Illinois EPA, April 21-24, 2008)
  - B. Analytical Results from April 2008 Site Assessment (Illinois EPA, spring 2008)
  - C. Removal Action Referral to U.S. EPA (Illinois EPA, January 3, 2012)
  - D. Photographs from January 26, 2012 Site visit (U.S. EPA, January 26, 2012)
  - E. Title Search Report (Weston Solutions, Inc., July 25, 2012)
  - F. XRF Screening Data (IEPA, August 2004)
- 
- 

## **Reference 9**

UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF ILLINOIS  
EASTERN DIVISION

IN THE MATTER OF:

Lake Calumet Smelter Site

11901 S. Champlain Ave. and 651 E. 119th  
St., Chicago, Cook County, Illinois

)  
) Application for Ex Parte  
) Administrative Warrant to Conduct  
) Removal Response Action, pursuant to  
) Section 104(e) of the Comprehensive  
) Environmental Response,  
) Compensation, and Liability Act, 42  
) U.S.C. § 9604(e)

) No. **13M524**  
)

**ADMINISTRATIVE WARRANT TO EFFECTUATE  
REMOVAL RESPONSE ACTION TO ELIMINATE AN IMMINENT AND  
SUBSTANTIAL ENDANGERMENT TO PUBLIC HEALTH AND WELFARE**

TO: SUSAN HEDMAN, REGIONAL ADMINISTRATOR, UNITED STATES  
ENVIRONMENTAL PROTECTION AGENCY, REGION 5, AND ANY DULY  
DESIGNATED EMPLOYEES OR REPRESENTATIVES OF U.S. EPA.

Proper application has been made pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, 42 U.S.C. §§ 9601 *et seq.* ("CERCLA"), for an administrative warrant to effectuate a removal action to abate an imminent and substantial endangerment to human health and the environment at and from the property owned or formerly owned and/or operated by Lake Calumet Smelting Company and Lake Calumet Building Corporation, Parcel Identification Number 25-22-401-002-0000, located at 11901 S. Champlain Ave. with a mailing address of 651 E. 119th St., both in Chicago, Cook County, Illinois ("Site"). This court finds that the United States has established reasonable grounds for issuance of the requested administrative warrant to authorize representatives of the United States Environmental Protection Agency ("U.S. EPA" or the "Agency"), including contractors and representatives authorized by U.S. EPA, to enter to perform response actions as set forth below pursuant to Sections 104(a) and (e) of



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF

To : KRIS VEZNER

CERCLA, 42 U.S.C. § 9604(a), (e). The materials supporting the United States' Application for an Ex Parte Administrative Warrant ("Application") consist of the Declaration of U.S. EPA On-Scene Coordinator ("OSC") Brad Benning and all attachments thereto.

In its Application for an Ex Parte Administrative Warrant, as supported by the declarations identified above, U.S. EPA has explained the scope and nature of its planned removal action at the Site under CERCLA, and the estimated number of days that will be required to properly complete the removal action. U.S. EPA will effectuate the following actions:

- (1) implement a site health and safety plan;
- (2) secure the Site through repair and/or replacement of existing fencing as appropriate;
- (3) remove and dispose of drums, site debris, and vegetation;
- (4) excavate soil to a depth of one foot;
- (5) after removing the initial foot of soil, conduct additional sampling to delineate the remaining extent of contaminated soil;
- (6) further remove contaminated soil with concentrations above the industrial RSL of 800 mg/kg for lead, 380 mg/kg for arsenic, and 10,000 mg/kg cadmium to a depth of approximately one additional foot;
- (7) treat contaminated soil with a fixation agent and arrange for it to be treated and disposed of off-site;
- (8) backfill with clean soil and vegetate to prevent soil erosion;

In order to fully characterize the nature and extent of contamination, U.S. EPA may use various types of equipment, including but not limited to: hand augers; geoprobes; shovels; trowels; excavation vehicles and machinery; x-ray fluorescence units and other "direct read" field instruments; and geophysical equipment. It may be necessary or convenient to leave some of the equipment at the Site while the response actions are ongoing. It may also be necessary and desirable

to take photographs of portions of the Site and of the performance of the removal. All of these actions are typical of actions taken by U.S. EPA under the authority of CERCLA.

THEREFORE, IT IS HEREBY ORDERED that, pursuant to Section 104(a) and (e) of the CERCLA, U.S. EPA and its duly designated representatives, including contractors and representatives authorized by the U.S. EPA, are hereby entitled to and are hereby permitted to enter upon the subject premises and property located at 11901 S. Champlain Ave. and 651 E. 119th St., both in Chicago, Cook County, Illinois, for the purposes of effectuating the removal described above. As part of the response action, employees of the U.S. EPA, including contractors and representatives authorized by the U.S. EPA, are permitted to enter and to re-enter the Site to effectuate the response action as the Agency deems necessary. The Agency shall re-grade the land and vegetate it to prevent erosion.

Entry shall be completed within 180 days from the date that this warrant is issued. U.S. EPA retains the right to request another warrant to complete any additional removal actions beyond those set forth herein.

A copy of this warrant shall be left at the Site at the time the response action commences. A copy shall also be addressed to Lake Calumet Smelting Company and Lake Calumet Building Corporation and mailed or delivered to 651 E. 119th St., Chicago, Illinois.

The United States Marshal is hereby authorized and directed to assist representatives of the U.S. EPA in such manner as reasonably may be necessary and required to execute this Warrant and the provisions contained herein.

Dated this 12<sup>th</sup> day of September, 2013. 130/PM

Daniel H. Martz  
UNITED STATES MAGISTRATE JUDGE



## Reference 10

01-750



## ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829

PAT QUINN, GOVERNOR

JOHN KIM, INTERIM DIRECTOR

(217) 524-1663

January 3, 2012

Mike Ribordy  
Chief, Emergency Response Section 2  
Emergency Response Branch 2  
U.S. EPA, Region 5  
77 West Jackson Boulevard, SE-5J  
Chicago, IL 60604

Re Lake Calumet Smelting Company  
LPC# 031509228 – Cook County  
SF/Tech

Dear Mr. Ribordy:

I am requesting the Region 5 Offices of the United States Environmental Protection Agency (U.S. EPA) assign an On-Scene Coordinator and consider conducting a time-critical removal action at the Lake Calumet Smelting Company (Lake Calumet Smelting) Site located in Chicago, Cook County, Illinois.

Lake Calumet Smelting is located at 11901 South Champlain Avenue in Chicago, Illinois (see Figure 2). The site can be found within the south side of Chicago approximately 1500 feet west of Interstate 94. The property is bordered to the north by 119<sup>th</sup> Street and South Champlain Avenue to the west, although that portion of South Champlain Avenue is unpaved and currently not in use. The property currently encompasses approximately 5.7 acres of land and is situated in an urban/industrial setting. Residential properties can be found approximately one-half mile to the east. Currently the property consists of a large building foundation, the remains of a smoke stack, and demolished remains of other buildings. The property is partially vegetated with thick vegetation in some places and scattered trees throughout. The area is surrounded by a chain link fence although there are many breaks within the fence and there are signs of human intrusion.

From 1948 through the early 1970's Lake Calumet Smelting Company operated on the property. Lake Calumet Smelting was listed as a zinc smelter, smelter of secondary lead, tin, and solder. Inland Metals Refining Company began operating from the facility in the early 1970's until 1989 at which time it declared bankruptcy. The Cook County Treasurer's Office indicates that the property taxes for the parcel located at 11901 Champlain Avenue have been delinquent since 1988.

4302 N. Main St., Rockford, IL 61103 (815)987-7760  
595 S. State, Elgin, IL 60123 (847)608-3131  
2125 S. First St., Champaign, IL 61820 (217)278-5800  
2009 Mall St., Collinsville, IL 62234 (618)346-5120

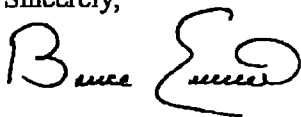
9511 Harrison St., Des Plaines, IL 60016 (847)294-4000  
5407 N. University St., Arbor 113, Peoria, IL 61614 (309)693-5462  
2309 W. Main St., Suite 116, Monro, IL 62959 (618)993-7200  
100 W. Randolph, Suite 11-300, Chicago, IL 60601 (312)814-6026

In 2008, Illinois EPA's Office of Site Evaluation conducted a Site Inspection at the Lake Calumet Smelting Site. As part of the inspection, twenty five soil samples were collected and analyzed. The results indicated that lead levels on the property exceeded 54,000 parts per million (ppm) and arsenic values were detected above 1220 ppm. Nine samples were also analyzed for Toxicity Characteristic Leaching Procedure (TCLP) methods for metals. The TCLP values for lead ranged from 11 to 1700 ppm. A map illustrating the sample locations and sample results are attached to this referral.

Although the property is fenced, there are several breaches in the fence and there is evidence that people enter the site. Due to the elevated levels of lead, arsenic, and other inorganic contaminants there remains a risk to the surrounding area and those that enter the site. Please have your On-Scene Coordinator contact Ken Corkill at (217) 524-1664 or me at the above number as soon as possible to discuss additional site information. Illinois EPA has compiled a Site Inspection Report and other relevant information about the property

As always, the Illinois EPA will provide assistance to U.S. EPA regarding this matter. Thank you for your continued assistance and we look forward to hearing from U.S. EPA for this project and future removal activities.

Sincerely,

A handwritten signature in black ink, appearing to read "Bruce Everetts". The signature is stylized with a large "B" and a cursive "Everetts".

Bruce Everetts  
Office of Site Evaluation  
Division of Remediation Management  
Bureau of Land

bcc. Division File, w/ attachments  
Jason El-Zein, U.S. EPA, w/o attachments, via e-mail  
Michelle Tebrugge, OCR, w/o attachments, via e-mail  
Ken Corkill, OSE, w/o attachments, via e-mail  
Dean Studer, OCR, w/o attachments, via e-mail

## Reference 11

DSK-34



UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF ILLINOIS  
EASTERN DIVISION

IN THE MATTER OF:

Lake Calumet Smelter Site

11901 S. Champlain Ave. and 651 E. 119th  
St., Chicago, Cook County, Illinois

)  
) Application for Ex Parte  
) Administrative Warrant to Conduct  
) Removal Response Action, pursuant to  
) Section 104(e) of the Comprehensive  
) Environmental Response,  
) Compensation, and Liability Act, 42  
) U.S.C. § 9604(e)  
)  
) No.

**APPLICATION FOR EX PARTE  
ADMINISTRATIVE WARRANT TO EFFECTUATE  
RESPONSE ACTION TO ELIMINATE IMMINENT AND  
SUBSTANTIAL ENDANGERMENT TO PUBLIC HEALTH AND WELFARE**

The Regional Administrator of the United States Environmental Protection Agency (U.S. EPA), Region 5, by Gary S. Shapiro, United States Attorney for the Northern District of Illinois, hereby applies for an *ex parte* warrant to allow her authorized representatives, including but not limited to U.S. EPA contractors, to enter and perform a removal action under Section 104(a) of the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 42 U.S.C. § 9604(a), at an abandoned industrial property located at 11901 S. Champlain Ave. and 651 E. 119th St., Chicago, Cook County, Illinois ("the Lake Calumet Smelter Site," or "Site"). The reasons supporting this request follow.

**1. Introduction**

The Lake Calumet Smelter Site is located in South Chicago in an urban, industrial area, approximately 1,500 feet from Interstate 94. The Site is approximately 5.7 acres, with the Parcel Identification Number 25-22-401-002-0000. The Site was used for many years for metal smelting, resulting in extensive contamination from heavy metals, including lead. Previous Site operators

include apparent lessees and metal production companies Lake Calumet Smelting Company and Inland Metals Refining Company (both now dissolved). Illinois EPA has conducted sampling that documents the extensive heavy-metal contamination, and has requested U.S. EPA's assistance in conducting a removal action at the Site. U.S. EPA's review confirms that the Site presents an imminent and substantial threat to human health and the environment.

Despite diligent efforts, U.S. EPA has been unable to identify a current owner of the long-abandoned Site or indeed any party that could grant U.S. EPA access to conduct the removal. Accordingly, U.S. EPA requests that the court issue an administrative warrant authorizing U.S. EPA to enter the property to address the threat.

## **2. Current Ownership of the Site and Access Attempts**

U.S. EPA's investigation shows that the owner of record of the Site is Lake Calumet Building Corporation, an entity that Illinois Secretary of State records show was involuntarily dissolved in 1989. No one has paid any taxes on the Site property for more than twenty years according to Cook County records. As detailed with more particularity in Part III of Ex. 1, the supporting declaration of Brad Benning, U.S. EPA found that the most recent Site operator, Inland Metals Refining Company went bankrupt and was dissolved in October 1989, and that a prior Site operator, Lake Calumet Smelting Company, which had apparently also engaged in metals production at the Site, is also dissolved. The Site address was the last known address for all of the above entities and their last known officers, directors. U.S. EPA mailed a letter via certified mail to the last known registered agent of Lake Calumet Building Corporation; the letter was returned as undeliverable. U.S. EPA also made efforts to contact other entities with speculative Site connections, but was unable to find any entity that would acknowledge any property interest in the



Site.

### **3. Proposed Response Action**

On January 3, 2012, the Illinois Environmental Protection Agency requested U.S. EPA to consider conducting a removal action at the Site due to the contamination from heavy metals. Sampling that Illinois EPA conducted at the Site in 2004 and 2008 shows that there is heavy lead contamination throughout the site, and also high levels of zinc, cadmium, arsenic and antimony at many locations. IEPA collected field-based soil and debris data with an X-Ray Fluorescence unit (XRF) at nine soil locations and one location on the concrete floor of former Site structure. Screening results indicate that contamination exists throughout the property. IEPA detected soil contamination not only on the floor of the former building, but also at various locations away from the former structures throughout the property. IEPA compared the results to industrial regional screening levels ("RSL"s). An industrial RSL is the concentration of a contaminant in an industrial setting below which U.S. EPA will take no further action. At concentrations in an industrial setting above the industrial RSL, U.S. EPA must at least investigate to determine whether further action is required. All 10 samples exceeded the lead RSL of 800 mg/kg, with concentrations from 7,480 mg/kg to 768,000 mg/kg. Nine of the 10 samples exceeded the arsenic RSL of 16 mg/kg. Four of the ten samples exceeded the lead RSL by a multiple of 100 times. Three of the 10 samples contained over 100,000 mg/kg of lead, or contained over 10% lead. The highest sample contained over 75% lead, almost 1,000 times the lead RSL. Overall, these are extremely high lead concentrations.

In 2008, IEPA collected 43 samples of groundwater and a variety of solid media at locations spaced across the Site and in the immediate vicinity of the Site. Of 30 soil and sediment samples, 23 exceeded the lead RSL of 800 mg/kg, with concentrations up to 54,000 mg/kg for soil and 15,000

mg/kg for sediment. Of these, 12 exceeded the lead RSL by a multiple of 10 times. At 21 locations spaced across the Site, IEPA also collected field-based data with an X-Ray Fluorescence unit (XRF). At 14 of those 21 locations XRF data showed exceedances of the lead RSL of 800 mg/kg, with concentrations up to 712,740 mg/kg. Nine of the 21 samples exceeded the lead RSL by a multiple of 10 times. Two samples contained over 100,000 mg/kg of lead, or contained over 10% lead. The highest sample contained over 70% lead, approaching 1,000 times the lead RSL. Overall, these are extremely high lead concentrations. IEPA also analyzed nine samples spaced across the Site using the Toxicity Characteristic Leaching Procedure (TCLP) method, the standard for determining whether a material constitutes a hazardous waste under the federal law for hazardous waste management, the Resource Conservation and Recovery Act, 42 U.S.C. §§ 6901 et seq. All nine samples exceeded the lead TCLP limit of 5 mg/l, with concentrations from 11 mg/l to 1,700 mg/l. Four of the nine samples exceeded the lead TCLP limit by a multiple of 100 times, and in fact exceeded that limit by over 200 times with lead concentrations of over 1,000 mg/l each. Three of the nine samples analyzed using the TCLP method exceeded the cadmium TCLP limit of 1 mg/l, with concentrations from 1.8 mg/l to 7.3 mg/l (Att. B). Based on the foregoing, IEPA concluded that the Site warranted a removal action.

In January 2012, U.S. EPA conducted a site visit, finding that the Site was partially fenced and that what fencing existed had multiple gaps, allowing essentially unimpeded access to the Site. Site buildings had been reduced to debris piles and concrete foundations, except for a single chimney still standing amid the rubble. The inspector also observed multiple gas cylinders and drums throughout the Site. Multiple residential properties and schools lie within one mile of the Site.

Through this application, U.S. EPA seeks an *ex parte* administrative warrant to undertake

the following removal action to mitigate threats posed by the presence of hazardous substances at the Site:

- (1) implement a site health and safety plan;
- (2) secure the Site through repair and/or replacement of existing fencing as appropriate;
- (3) remove and dispose of drums, site debris and vegetation;
- (4) excavate soil to a depth of one foot;
- (5) after removing the initial foot of soil, conduct additional sampling to delineate the remaining extent of contaminated soil;
- (6) further remove contaminated soil with concentrations above the industrial regional screening level (RSL) of 800 mg/kg for lead, 380 mg/kg for arsenic, and 10,000 mg/kg cadmium to a depth of approximately one additional foot;
- (7) treat contaminated soil with a fixation agent and arrange for it to be treated and disposed of off-site;

U.S. EPA estimates that it will take approximately 45 on-site working days (excluding weekends) to complete the initial phase of the removal. To account for any unexpected delays including but not limited to inclement weather, the unavailability of off-site disposal facilities, and regional emergencies requiring immediate response, U.S. EPA seeks access to the Site for a total of 180 days.

#### **4. Statutory and Regulatory Authority**

The Comprehensive Environmental Response, Compensation and Liability Act, as amended ("CERCLA"), 42 U.S.C. §§ 9601-9675, and the governing case law authorize this court to issue the requested administrative warrant to allow U.S. EPA to effectuate the proposed removal and thereby eliminate an imminent and substantial threat of endangerment to human health and the environment.

Congress enacted CERCLA in response to widespread concern over the serious environmental and health hazards posed by industrial pollution. *See United States v. Bestfoods*, 524 U.S. 51, 55 (1998). CERCLA's purpose "is to facilitate the prompt clean-up of hazardous waste sites." *In re Bell Petroleum Servs , Inc.*, 3 F.3d 889, 894 (5th Cir. 1993). To further that purpose, Congress provided U.S. EPA with "the authority and the funds necessary to respond expeditiously to serious hazards without being stopped in its tracks by legal entanglement before or during the hazard clean-up" *Boarhead Corp v Erickson*, 923 F.2d 1011, 1019 (3rd Cir. 1991); *see also J V Peters & Co , v Administrator, EPA*, 767 F.2d 263 (6th Cir 1985) One of the agency's tools for a prompt and effective response action is the access authority of Section 104(e) of CERCLA, 42 U.S.C. § 9604(e).

Section 104(e) of CERCLA, 42 U.S.C. § 9604(e), provides U.S. EPA with broad access authority to effectuate the purposes of CERCLA. U.S. EPA is authorized to take actions "at a vessel, facility, establishment, place, property, or location" if there is a reasonable basis to believe there may be a release or threat of release of a hazardous substance or pollutant or contaminant. 42 U.S.C. § 9604(e)(1). CERCLA further provides U.S. EPA representatives are authorized to enter at reasonable times any "property where entry is needed to determine the need for response or the appropriate response *or to effectuate a response action under this title* " 42 U.S.C. § 9604(e)(3) - (4) (emphasis added).

Under section 104(e) of CERCLA, a court may issue an administrative warrant for access and entry where "there is a reasonable basis to believe there may be a release or threat of release of a hazardous substance or pollutant or contaminant." 42 U.S.C. § 9604(e)(5)(B); *United States v. Tarkowski*, 248 F.3d 596, 599 (7th Cir. 2001); *United States v. Fisher*, 864 F.2d 434, 438 (7th Cir. 1988); *United States v. Mountaineering Ref Co.*, 886 F. Supp. 824, 828 (D. Wyo. 1995). This standard is sufficient to ensure that "[t]he decision to enter and inspect [is not] the product of the

unreviewed discretion of the enforcement officer in the field.” *See v City of Seattle*, 387 U.S. 541, 545 (1967).

The standard for U.S. EPA to obtain an administrative warrant under CERCLA section 104(e) is not difficult to meet. *Tarkowski*, 248 F.3d at 599 (“[t]he requirement for reasonable basis is easily satisfied”); *Fisher*, 864 F.2d at 438 (the standard is “undemanding”). U.S. EPA need only show that its “demand for access, grounded in ‘a reasonable basis to believe there may be a release or threat of release of a hazardous substance,’ is not ‘arbitrary and capricious, an abuse of discretion,’ or otherwise illegal.” *Fisher*, 864 F.2d at 438. Furthermore, U.S. EPA need not prove that any minimum amount of hazardous substances has been, or is threatened to be, released. *Mountaineering Ref Co*, 886 F. Supp. at 828; *Tarkowski*, 248 F.3d at 599 (“there is nothing in section 104(e)(1) about magnitude”).

Here, the results of the sampling conducted by Illinois EPA easily establish a reasonable basis to believe there has been a release of a hazardous substance, pollutant or contaminant. The presence of elevated levels of heavy metals, particularly lead, creates the potential risk for human exposure. *Id*

After the U.S. EPA makes the required showing of a reasonable basis for believing there may be a release or threat of release of a hazardous substance, pollutant or contaminant, a court may issue a warrant *ex parte* to enforce U.S. EPA’s statutory right of entry under CERCLA. *Bunker Hill Co Lead and Zinc Smelter v U.S. EPA*, 658 F.2d 1280 (9th Cir. 1981); *In re Alameda County Assessor’s Parcel Nos 537-801-2-4 and 537-850-9*, 672 F. Supp. 1278, 1287 (N.D. Cal. 1987) (in both cases *ex parte* warrants were issued to U.S. EPA to perform inspections under other federal environmental statutes, based on showings of reasonable cause to believe that violations of those statutes had occurred or would occur).

### **Conclusion**

For the reasons set forth above, and for the reasons set forth in the attached declaration, U S. EPA requests that the court issue an administrative warrant that allows U.S. EPA and U.S. EPA's authorized representatives to enter the Site to conduct the removal action described in this application, in accordance with Section 104(a) and (e) of CERCLA, 42 U.S.C. § 9604(a) and (e). A draft administrative warrant for entry to effectuate a removal action at the Site is attached as Attachment A.

Respectfully submitted,

GARY S. SHAPIRO  
United States Attorney

By. s/ Jonathan C. Haile  
JONATHAN C. HAILE  
Assistant United States Attorney  
219 South Dearborn Street  
Chicago, Illinois 60604  
(312) 886-2055  
jonathan.haile@usdoj.gov

## **Attachments**

1. Declaration of Bradley Benning
2. Draft Administrative Warrant

## Reference 12



DSK-24

## OFFICE OF THE ILLINOIS SECRETARY OF STATE

**JESSE WHITE**  
SECRETARY OF STATE**CORPORATION FILE DETAIL REPORT**

File Number	30470869		
Entity Name	LAKE CALUMET BUILDING CORP.		
Status	DISSOLVED		
Entity Type	CORPORATION	Type of Corp	DOMESTIC BCA
Incorporation Date (Domestic)	03/02/1948	State	ILLINOIS
Agent Name	DAVID A JACKSON	Agent Change Date	00/00/0000
Agent Street Address	651 E 119TH ST	President Name & Address	DAVID A JACKSON 651 E 119TH ST CHICAGO 60628
Agent City	CHICAGO	Secretary Name & Address	INVOLUNTARY DISSOLUTION 08 01 89
Agent Zip	60628	Duration Date	PERPETUAL
Annual Report Filing Date	00/00/0000	For Year	1989

[Return to the Search Screen](#)

BACK TO CYBERDRIVEILLINOIS.COM HOME PAGE



## Reference 13

DSK-20

## PIN Summary

Property Index Number (PIN): 25-22-401-002-0000

Our records do not indicate any open sales for tax years 2012, 2013 or 2014 on this PIN

# 2015

**Tax Year 2015 (payable in 2016)**

Amount Due  
\$ 6,588.26

[Pay Here or View Tax Information](#)

### Search Again:

Use the search field below to search property tax information

Please enter your 14-digit Property Index Number (PIN)

 -  -  -  - 

Please type in the 6-letter security code below exactly as you see it displayed, and then click Search

[Search](#)

[Reset](#)

For information on locating a PIN, please visit [Locating Your Property Index Number \(PIN\)](#) section

## Reference 14



DSK-21

WWW.CYBERDRIVEILLINOIS.COM

JESSE WHITE  
SECRETARY OF STATE

## CORPORATION FILE DETAIL REPORT

Entity Name	LAKE CALUMET BUILDING CORP	File Number	61624414
Status	DISSOLVED		
Entity Type	CORPORATION	Type of Corp	DOMESTIC BCA
Incorporation Date (Domestic)	05/17/2001	State	ILLINOIS
Agent Name	ERIC SANDERS	Agent Change Date	05/17/2001
Agent Street Address	5601 W WEST END	President Name & Address	
Agent City	CHICAGO	Secretary Name & Address	INVOLUNTARY DISSOLUTION 10 01 02
Agent Zip	60644	Duration Date	PERPETUAL
Annual Report Filing Date	00/00/0000	For Year	2002

[Return to the Search Screen](#)

BACK TO CYBERDRIVEILLINOIS.COM HOME PAGE



## Reference 15

DSK-17





Reference 16

OSK-12



**Business Search Criteria: INLAND METALS REFINING CO., Reference:  
B5FM, Date: 10/03/12 01:44 PM**

Name/Status	FEIN	Address	File State	Relevance	Records
INLAND METALS REFINING CO.		651 E 119TH STREET CHICAGO, IL 60628-5708	IL	★★★★	1

Search Type: Business  
Reference B5FM

**INLAND METALS REFINING CO**

1 record aggregated

Source: Corporate Detail

Business Name: INLAND METALS REFINING CO

Corporation Number: 26147514

Date Incorporated 05/19/1939

Status DISSOLVED

Business Type DOMESTIC CORPORATION

Corporation Type PROFIT

**Corporation Officers and Registered Agents**


Name: DAVID RICE 651 E 119TH ST CHICAGO

Title Officer/Director

Name DAVID A JACKSON

Title Registered Agent

**Address**

651 E 119TH STREET   
CHICAGO, IL 60628-5708

Expand the result group to view more detailed information from this source



Search Type: Business  
Reference:

**INLAND METALS REFINING CO.**

1 record aggregated.

Source: Corporate Detail

Business Name: INLAND METALS REFINING CO.

Corporation Number: 26147514

Date Incorporated: 05/19/1939

Status: DISSOLVED

Business Type: DOMESTIC CORPORATION

Corporation Type: PROFIT

**Corporation Officers and Registered Agents**

Name: DAVID RICE 651 E 119TH ST CHICAGO

Title: Officer/Director

Name: DAVID A JACKSON

Title: Registered Agent

**Address**

651 E 119TH STREET   
CHICAGO, IL 60628-5708

Expand the result group to view more detailed information from this source

## Reference 17

DSK-11



## Superfund

<http://cfpub.epa.gov/supercpad/cursites/csitinfo.cfm?id=0500577>

Last updated on Wednesday, July 25, 2012

You are here: [EPA Home](#) | [Superfund](#) | [Sites](#) | [Superfund Information Systems](#) | [Search Superfund Site Information](#)

## Search Superfund Site Information

### INLAND METAL REFINING COMPANY INCORPORATION

#### Site Information

[Site Info](#) | [Aliases](#) | [Operable Units](#) | [Contacts](#)  
[Actions](#) | [Contaminants](#) | [Site-Specific Documents](#)

This site has been archived from the inventory of active sites.

**Site Name:** INLAND METAL REFINING COMPANY INCORPORATION

**Street:** 651 EAST 119TH STREET

**City / State / ZIP:** CHICAGO, IL 60628

**NPL Status:** Not on the NPL

**Non-NPL Status:** NFRAP-Site does not qualify for the NPL based on existing information

**EPA ID:** ILD980503213

**EPA Region:** 05

**County:** COOK

**Federal Facility Flag:** Not a Federal Facility

[Return to Search Results](#)

[Return to Search Superfund Site Information](#)

[OSWER Home](#) | [Superfund Home](#)

URL: <http://cfpub.epa.gov>

This page design was last updated on Tuesday, June 23, 2009

Content is dynamically generated by ColdFusion

Site Name:	INLAND METAL REFINING COMPANY INCORPORATION		Site ID:	0500577
Address:	651 EAST 119TH STREET		State ID:	
City, ST, Zip:	CHICAGO	Illinois	EPA ID:	ILD980503213
Region:	(Blank)		Primary SSID:	
County Name:	COOK	FIPS Code:	17031	Region:
Navajo Nation:		SMSA:	1600	Parent Site ID:
Congr District:	01	USGS Hydro Unit:	07120003	Boundary Acres:
USGS Quadrant:		Site Alias EPA ID:		
Child Site Exists:	<input type="checkbox"/>	FUDS Site:	<input type="checkbox"/>	

Directions to Site:

NPL Listing Latitude:	
NPL Listing Longitude:	
Accuracy Meters +/-:	
Collection Method:	(Blank)
Reference Datum:	(Blank)
Reference Point:	(Blank)
Source Map scale:	(Blank)